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BETTER FRUIT

July 1907



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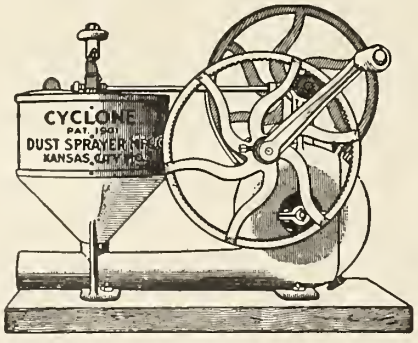
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9:12	BRIDAL VEIL		5:02
9:41	BONNEVILLE		4:32
9:53	CASCADE LOCKS		4:20
10:06	WYETH		4:06
10:33	HOOD RIVER		3:40
10:45	MOSIER		3:28
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YEAR by year, we notice more difference being made between what is called good fruit and the extra quality kind, and we believe that this tendency will continue. Hood River seems to have become almost a by-word for extra quality, and while we believe that at times prices are held at Hood River a little beyond actual values as compared with equally good fruit at other points, the fact remains that the name Hood River is worth money, and on fruit no better than from other points, Hood River should and does get the preference.

¶ The house of F. NEWHALL & SONS of Chicago, has for sixty years been trying to educate the people of the East to demand high quality fruit and pay high quality prices, and the movement toward extreme high quality packing at Hood River and a few other Western points is a decided help in this direction. We may not buy a package in your territory this year (we bought but little there last year, though very heavily in other sections) but we are going to be on the ground just the same, and if prices seem in line with other fruit equally good at other points, we are going to pay just a little more for the name, Hood River. If your prices look a little above our views on a buying proposition, possibly we may interest some of your people as their representatives in Chicago. At any rate, we shall try to become better acquainted with the Hood River people and its fruit interests.

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BETTER FRUIT

A MONTHLY ILLUSTRATED MAGAZINE PUBLISHED IN THE INTEREST
OF UP-TO-DATE AND PROGRESSIVE FRUIT GROWING AND MARKETING

BLACKBERRY AND RED RASPBERRY CULTIVATION

BY W. H. PAULHAMUS

THE editor of "Better Fruit" has requested an article explaining how the growers of the Puyallup Valley produce their red raspberries and blackberries. While I do not desire to assume the attitude of speaking for all of the growers, yet it is a pleasure for me to give to Mr. Shepard the desired article so far as it relates to my own yards.

All growers of any product realize that there is a diversity of opinion as to what is the best method of growing or handling any given article. It is perfectly clear to me that if a person desires to have his watch fixed, it should be taken to a jeweler, and not to a shoemaker; and the same will apply to getting your shoes half-soled. In trying to ascertain what is the best method of growing any class of fruit it is my desire to ascertain who gets the best results, both as to QUALITY and quantity. I place quality first, for the reason that it is quality that regulates the profit more than quantity, and without quality no good results can be obtained.

The Puyallup Valley is particularly well adapted for the growing of bush fruits, for the reason that our climatic and soil conditions appear to be created for the sole purpose of producing the desired quality and quantity. Our soil is largely composed of a deposit from the mountains, and is of extremely fine texture, capable of being worked up until it is practically an ash heap. In addition to this, our rainfall in the winter is sufficiently great to furnish us all the moisture required during the growing season, provided the top two or three inches of our soil is thoroughly pulverized and kept as a dust mulch. This will explain that irrigation is not required in the Puyallup Valley.

With us a reasonable crop of red raspberries is about 250 crates to the acre, although there is no excuse for a grower producing less than 300 crates of red raspberries, of 22 pounds to the crate, from an acre of our land. The question naturally arises, can more than 300 crates be taken from an acre if handled in the best possible condition? My experience is, that there is no great difficulty in practically doubling this output, or nearly so, by adding a little extra work and considerable extra fertilizer. If this is true, is it not better to farm five acres of land thoroughly than to farm ten acres under ordinary conditions?

In traveling over any community we find that those who have cows are extremely careless of the fertilizer derived from the herd. We all realize the value of cow manure as a fertilizer, yet we do not all realize that 70 per cent of the value of the fertilizer derived from the herd of cows is in the liquid manure, which not only too often goes to waste, but is permitted to make mud holes and ill-smelling pools around the barnyard. In addition to the loss of the liquid manure, the average farmer throws the solid manure out under the eaves of his barn, so that the rain from the roof will help wash out a great percentage of the value that is in the fertilizer when thrown out of the window.

Possibly this can be made more clear to the average grower by calling attention to the well-known fact that plants cannot consume any class of fertilizer until it is reduced to a liquid form. Several elements are necessary to decompose and get ready any class of fertilizer in the solid state before it can be consumed by plants. Chief among these agencies are light, heat and air. This will explain the necessity of constantly stirring the soil if the solid manure is put in the ground too deep. If this contention is correct, the question will arise as to the best possible method of applying the fertilizer to plants.

It is clear to me that if the fertilizer can be applied in such form that it can be immediately taken up by the plants, the results will be much quicker and greater. This should make it clear to the average person that a fertilizer applied in liquid form will give greater results, and quicker results, than if applied in the form that will require at least 365 days before it will get soluble enough to be of value.

I do not wish to be understood as stating that we do not need any manure in our soil in the solid form, but, on the other hand, desire to affirm that the solid manure is very essential in the texture of the soil, to help make the soil more porous and more pliable, and easier to work. In addition to this, I desire to add that liquid manure does not contain all of the elements necessary to grow plants and fruit, and if nothing but liquid manure is applied the other elements necessary will soon be depleted.

Having laid the foundation for the fertilizer necessary for plant life, I will now enter into the plans and procedure adopted in growing my own berries. I plant both raspberries and blackberries in continuous rows, set the plants about two and one-half to three feet apart in the row, and the rows for the bush fruits seven feet apart, so as to give plenty of room for the roots, as well as the tops of the bushes. I believe in setting the roots a little bit below the surface of the ground, for the reason that raspberries and blackberries, like strawberries, throw out a new crown each year, and each crown is above the crown of the year before, and the useful life of the plant will depend entirely upon the amount of soil around it to keep it from drying out.

In other words, the quicker the crown gets above ground, the quicker it is necessary to replant. This will explain that it is more advisable for level cultivation than in hilling up your plants early in the spring, for the reason that if the plant is hilled up highly, the higher the crown will be produced; but, in my judgment, after the new sprout is started, the plant can be hilled up a little, to avoid extreme dry weather, but I prefer to hill up as little as possible.

During the winter months I haul onto the yards all of the solid manure that I can spare, retaining the liquid manure in a separate tank until the growing season in the spring. As soon as the plants get growing vigorously I apply the liquid manure by hauling it in barrels on a sled, with a half-inch water pipe at the bottom of the barrel, to which is attached a piece of ordinary water hose about six feet long. I tie a stick to the other end of the hose, so that I can place the loose end at any point along the row of berries that I desire, and while the horse is walking along slowly the liquid manure is being scattered where it will do the most good.

Above all things, even during picking time, and particularly after each and every rain, I start the shallow harrows

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SUCCESS CROWNING EFFORTS OF OREGON AND WASHINGTON FRUIT CANNERIES

REPRESENTATIVES FROM EASTERN COMMISSION HOUSES SIZING UP THE WESTERN APPLE CROP

to work, so as to break the crust on top of the soil and keep a constant dust mulch. At no season of the year do we permit the plow to go closer than twelve inches to any hill, and, when that close, do not desire the plow to go deeper than three inches. The further away from the plant the deeper the plow may be run.

Instead of topping either the raspberries or blackberries, I find that the greatest crops can be grown by using the entire cane, and tying them to a wire in fan shape, having the canes about six inches apart. Five feet from the ground I stretch a hop pole from one post to the other, so as to permit the long berry cane to lay over the post so that it can



SCENE SHOWING MR. PAULHAMUS' METHOD OF TRAINING RED RASPBERRY VINES. PHOTOGRAPH WAS TAKEN ABOUT MAY 15

be picked. I do not use a wire for the reason that the cane would break over the wire, but will not break over the hop pole, or something of a larger surface than the wire.

The rows should be run east and west, and the bearing cane should be tied to the north wire, so as to be in the shade. The berries produce better in the shade than in the sun; they grow larger and have a finer flavor. On the other hand, the new canes for next year's crop do better in the sun than in the shade. The bud that is produced this year produces your crop the next year. If you have a perfect bud your crop next year will be good, regardless of next year's weather conditions. If you have a weak, immature, sickly bud, your crop next year will not be good, regardless of weather conditions. This applies in berries exactly the same as it does in cows. If your heifer cows are fed correctly and developed properly, the chances are that you will have a good cow; but if they are given nothing but skim milk and mouldy hay, and constantly in bad health, you will NEVER have a good cow. If this is correct, should we not give our berry and other bush fruits the same good care that we should give to our heifer calves?

In my judgment, if the present farming community of the United States had one-tenth the acreage that they now endeavor to farm, they could produce greater crops with less help, and be more prosperous. The average person can easily sit down and figure out that if they can make $50 from a quarter acre of strawberries they can make the same number of dollars per quarter acre on 100 acres, but this is a case of figures not telling the truth, because it is never done. When we get beyond what we can do right, we fall down. I know this is true in my own case, as I have undertaken too much in the last two years, and the results in all of my enterprises are not what they would have been had I confined myself to any one of them.

I find that by sowing vetch between the rows of berries about September 1, and permitting it to grow until the first week in April, then plowing it under, but not plowing over four inches deep, I get a good crop of green manure which adds to the strength of the soil.

The Puyallup Valley at the present time is a small acreage proposition. The farmer having ten acres is the exception. With five acres of our land good results can be obtained. We have established our canning plant so that we can take care of all of our berries, from the very best to the very poorest. There is always room in the Puyallup Valley for active, wide-awake, vigorous people. In my judgment there is no community in the United States more inviting to the person who can be contented on a small farm that will produce a reasonable income.

We never have had failures of our crops. Our rail facilities for transportation are of the best, and, to me, our climatic conditions are entirely satisfactory. We have several most excellent schools, including a four-year High School course.

The results that have been obtained in the Puyallup Valley are entirely traceable to our association, consisting of more than 500 members. After the strawberry season of Hood River is over, and any of the local readers of "Better Fruit" can spare the time, it would pay them to take a little trip up this way and look the country over, not with a view of changing your location, but with a view of learning whether other people are doing any part of farming in a different way than you are doing it, and to ascertain if you cannot see some one or more things that would add to your present results.

OREGON DEVELOPMENT LEAGUE
Affiliated with Portland Commercial Club
Tom Richardson, Manager

Portland, Oregon, February 27, 1907.

Better Fruit Publishing Co., Hood River, Oregon.

Gentlemen: No subscription made to our special fund under the direction of the Executive Committee for the advancement of Oregon has met with greater appreciation than the 120 copies monthly furnished jointly by yourselves and Messrs. Baltes & Co., of this city. As a publisher Mr. Baltes places "Better Fruit" at the top, typographically, of all the publications on the Pacific Coast, and I must say that I feel that his estimate is not overdrawn.

Between November 20 and February 23 we have received 11,365 inquiries, and I can assure you that it would have been a great gratification to me if every one of them could have received a copy of "Better Fruit."

Your unparalleled success in reaching a circulation of three thousand paid subscribers in seven months, in addition to the large number of extra copies that are subscribed for by the commercial bodies of The Dalles, Hood River, and other places must be a source of great gratification, for it proves that the horticultural interests of the country appreciate a thorough, high-grade and complete publication.

I know of instances where people have been induced to come to Oregon from receiving a copy of "Better Fruit," and I presume you are familiar with many instances of the same kind.

Wishing you genuine success, I am, with best wishes, very truly yours,

Tom Richardson, Manager.



THREE-ACRE EVERGREEN BLACKBERRY FIELD OWNED BY W. H. PAULHAMUS, NEAR PUYALLUP, WASH., SHOWING METHOD EMPLOYED FIRST WINTER AFTER PLANTING

NATURE IS BOUNTIFUL TO SOUTHERN OREGON

THE raising of fruit in the Rogue River Valley has been carried on successfully for years, and has now passed that stage where uncertainty exists as to the marketing of its product. This is so well established that it is possible for fruitmen to market at good prices all the Yellow Newtown and Spitzenberg apples and Bartlett, D'Anjou and Comice pears that Rogue River Valley, throughout its length and breadth, can possibly raise.

It has become a business proposition more certain than any ordinary mercantile pursuit. If the man contemplating raising apples or pears will use good judgment in the selection of his orchard site, and give it the care it deserves and should have, from the setting out of the young tree to the increased responsibility when the orchard is producing large quantities of the finest fruit, practically all chance is eliminated. There are ways and methods known and provided for overcoming all obstacles to the successful raising of good apples and good pears, if the man does what is required of him. In the past a big crop, with a liberal bank account established by its sale, has resulted in carelessness, but the experience of those who fell into this error is a good object lesson to future growers. Upper Rogue River Valley, in the neighborhood of Ashland, Oregon, where the altitude gives plenty of sunshine, and fog is rarely experienced, is one of the most likely spots to build a home and raise fine fruit on a practical business foundation. Located at the foot of the Siskiyou Mountains and blessed with a temperature throughout the year devoid of extremes, this region is more than favorably situated for the raising of apples and pears. The natural passing of the moisture through the earth, down the mountain sides, reaches the more level lands by Nature's own perfect process, and at a time when needed the most. While the surface waters pass swiftly off, all that portion absorbed by the earth slowly finds its way from one atom to another, taking so much time in its journey that this excess of moisture in the mountains means moisture in the valley when the season is further advanced, and furnishes such a large amount of natural sub-irrigation that, with the added intelligence of the fruit raiser who adopts a proper system of cultivating the soil during the warmer and drier months, no surface irrigation is needed.

Beautifully located in the valley about eight miles from Ashland, and some four hundred feet higher in altitude, are the Barron orchards. Here the Newtown Pippin grows to an almost perfect state. One mile down the valley the A. D. Helm orchard of seven acres, shown on the front cover, has produced for its owner in the last seven years the following extraordinary amount in dollars:

1900—Gross receipts	$1100.00
1901—Gross receipts	3500.00
1902—Gross receipts	2500.00
1903—Gross receipts	8000.00
1904—Gross receipts	3600.00
1905—Gross receipts	7600.00
1906—Gross receipts	2500.00
Total	$28,800.00

This is an average of $4,114.28 each year, and an average of $587.75 per acre each year for the period of seven years. This orchard bids fair at the present time to equal in this season's crop the best year in its history.

What is true in regard to this orchard can be repeated by any man interested to that extent that he stands ready to put forth his best efforts, as he would in other pursuits if he looked for a successful outcome.

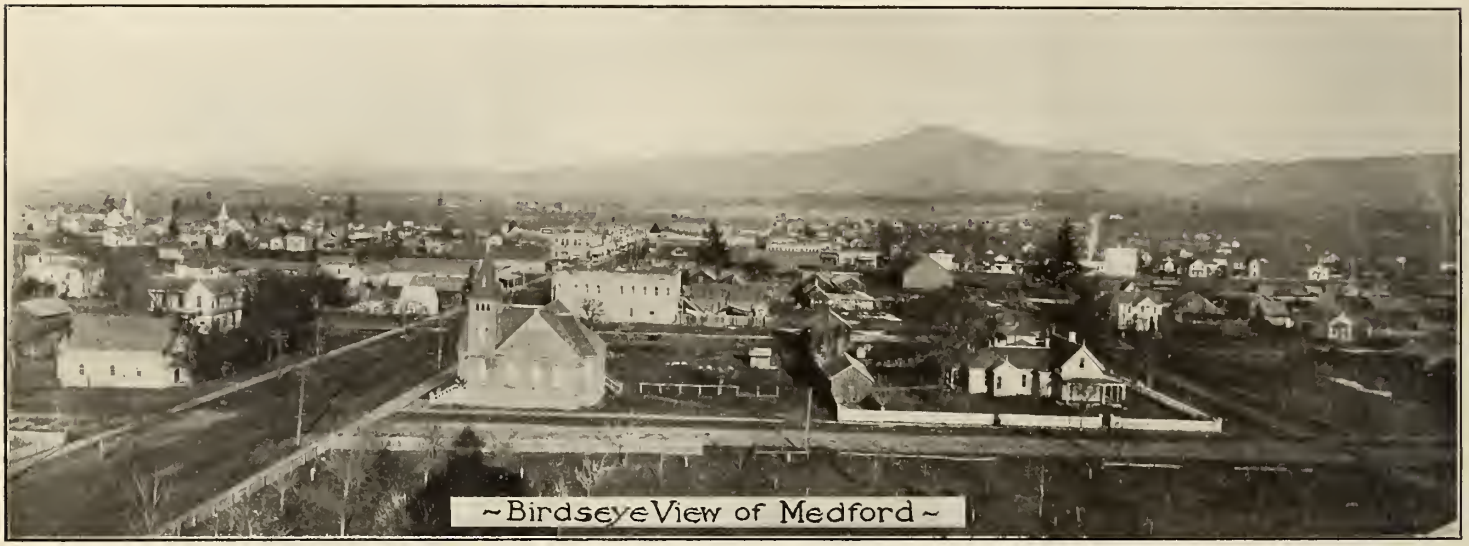
There is a wealth of opportunity lying dormant here. The great percentage of land now used for raising grain and for pasturage is especially adapted to the



PICKING FRUIT IN THE JOHN S. GORE BARTLETT PEAR ORCHARD NEAR ASHLAND, OREGON. THIS ORCHARD IS SAID TO HAVE NETTED MR. GORE $500 PER ACRE LAST SEASON

culture of apples and pears, and land now purchasable at from $10 to $30 per acre will find ready buyers at from $200 to $300 per acre. The great demand for Bartlett, D'Anjou, Comice and other varieties of pears raised in Upper Rogue River Valley is because of the fact that the most perfect and the best flavored fruit for the cannery is raised here. Because of the demand for the pears from this region it is likely that when it becomes known that the land is best adapted for raising these products there will be a great demand for it. The growing of pears will undoubtedly become an industry of great importance there, as the profits are so great. All the available land will soon be utilized, and the man who raises a fine grade of fruit need never fear overproduction.

The seven-acre Bartlett pear orchard of John G. Gore, shown in the accompanying cut, located ten miles from Ashland, Oregon, produced a crop in 1906 which netted the owner $500 per acre. The eight-acre pear orchard of M. L. Pellett, located six miles from Ashland, Oregon, is another example of the profits in pear raising. The Bartlett pears raised by Mr. Pellett bring the highest prices in competition with pears raised in any other locality. His profits during the season of 1906 were upwards of $500 per acre. Mr. Pellett expects this same acreage to net him $5,000 for the season 1907. A trip on business, pleasure or recreation through Southern Oregon and the Upper Rogue River Valley, Ashland and the vicinity of the Siskiyou Mountains is one long to be remembered, as it is full of interest and instruction in the fruit business, accompanied by delightful scenery and a climate that rivals that of Southern Italy.



MEDFORD IS THE METROPOLIS OF THE ROGUE RIVER VALLEY FRUIT INDUSTRY. FROM HERE ARE SHIPPED THE PEARS AND OTHER FRUITS THAT HAVE MADE THE VALLEY FAMOUS

BEST APPLES FOR BRITISH COLUMBIA ORCHARDS

BY MAXWELL SMITH

I AM so frequently asked what varieties of apples I should recommend planting in the Okanogan and other districts in British Columbia having similar climatic and soil conditions that I have prepared the following list, and while there are of course a number of other good varieties, I can with a reasonable degree of confidence recommend the following as money-makers:

Duchess of Oldenburgh, Gravenstein, Wealthy, McIntosh Red, Cox's Orange Pippin, Fameuse, Northern Spy, Esopus Spitzenberg, Jonathan, Delicious, Stayman Winesap, Yellow Newtown Pippin.

Of these twelve, eight are highly colored varieties of rare beauty, viz., Duchess of Oldenburgh, Wealthy, McIntosh Red, Fameuse, Esopus Spitzenberg, Jonathan, Delicious and Stayman Winesap; but the other four, viz., Gravenstein, Cox's Orange Pippin, Northern Spy and Yellow Newtown Pippin, possess such excellent qualities and are so well known in the markets of the world that we cannot afford to leave them out of the list. I should like to point out also that the keeping qualities of these twelve varieties are fairly well indicated by the order in which they are named above. Beginning with the Duchess of Oldenburgh, which does not keep successfully longer than the end of September, and ending with the Yellow Newtown Pippin, which under proper conditions may be held over until May, there are five of these varieties, viz., Cox's Orange Pippin, Fameuse, Esopus Spitzenberg, Stayman Winesap and Yellow Newtown Pippin, concerning which particular care should be exercised to give the proper name when ordering, as there are other similar though inferior varieties; that is to say, there are Orange Pippins, Striped Fameuse, Snow (seedling of the Fameuse), Spitzenbergs, Winesaps and Newtown Pippins which are of a very inferior quality to the Cox's Orange Pippin, the Fameuse, the Esopus Spitzenberg, the Stayman Winesap and the Yellow Newtown Pippin.

While I submit the names of twelve varieties, I should not recommend any one grower to plant more than four of these, and for convenience I should advise dividing them into three groups, about as follows:

Group No. 1—Duchess of Oldenburgh, Wealthy, Delicious and Esopus Spitzenberg.

Group No. 2—Fameuse, McIntosh Red, Jonathan and Stayman Winesap.

Group No. 3—Gravenstein, Cox's Orange Pippin, Northern Spy and Yellow Newtown Pippin.

In planting an orchard I should strongly advise against planting a large block of one variety alone, but would recommend a plan similar to that outlined on the attached diagram, showing an orchard planted with the varieties named in Group No. 1. The reason for this is the advisability of getting different varieties in close proximity, so as to render effectual the operation of interpollenization by the action of wind and honey-gathering insects.

On the attached diagram it will be observed that the longer-lived trees, viz., the Esopus Spitzenberg and the Delicious, are designed for the permanent orchard. The first named are planted forty feet apart on the square, and the second in the diamond in between, while the Wealthy and Duchess of Oldenburgh are used as fillers, reducing the whole plantation to twenty feet between the trees. Then when the fillers are removed after serving their term of usefulness, it leaves the Esopus Spitzenberg and the Delicious in the diamond form, with a space a little more than twenty-eight feet between the trees in every direction.

Of course fillers should never be planted at all unless the owner of the orchard is quite sure that he possesses sufficient courage to remove them as soon as the other trees require the room.

Plan of Orchard.

Planted with varieties named in Group No. 1, viz., Esopus Spitzenberg, Delicious, Wealthy and Duchess of Oldenburgh:

E°S	W°	E°S	W°	E°S	W°	E°S
D°O	D°	D°O	D°	D°O	D°	D°O
E°S	W°	E°S	W°	E°S	W°	E°S
D°O	D°	D°O	D°	D°O	D°	D°O
E°S	W°	E°S	W°	E°S	W°	E°S
D°O	D°	D°O	D°	D°O	D°	D°O
E°S	W°	E°S	W°	E°S	W°	E°S

REFERENCE OF SOILS TO FRUIT REQUIREMENTS

BY C. E. BRADLEY, Assistant Chemist, O. A. C.

THE agricultural wealth of any nation rests directly or indirectly upon the productivity of its soil. Soil problems are therefore practical problems, and a thorough knowledge of the functions of soils in plant growth and of means for conserving their fertility is of vital importance.

In general, soils are of a very complex nature and the processes involved therein offer, accordingly, a wide range for scientific investigation. The physicist finds many opportunities for research in the investigation of soil moisture, temperature, permeability to gases, etc. The chemist has a broad field in the determination of the amount of plant foods present, their availability for immediate use by the plant, as well as methods for restoring and conserving this fertility; and not less important are the studies of the bacteriologist to determine the role of soil bacteria, conditions favorable for growth of beneficial organisms, as well as methods for eliminating those organisms which are detrimental. These are broad problems which are enlisting the efforts of many skilled workers throughout our own and other countries.

Soils are derived from decomposed and disintegrated rock masses. The agencies instrumental in this weathering and disintegration are the carbonic acid and oxygen of the air, which in connection with the eroding and transporting action of water constitute the essential agents of soil formation.

From the physical standpoint, soils are more or less complex mixtures of sand, silt, clay, mineral particles and organic matter, presenting various textures depending upon the relative proportions of these ingredients present. A simple experiment, making use of the sorting power of water, will serve to segregate an ordinary soil into these constituents. If a handful of soil be thrown into a tumbler of water, the small pebbles or coarse sand settle quickly on account of their weight and form a layer on the bottom of the vessel; on top of these the finest sand or silt collects. Throughout the main body of the liquid the finer clay particles remain in suspension, giving a milky appearance to the liquid. On top of the liquid a dark-colored layer, the organic matter, collects. This is mainly humus and while usually comprising only a small per cent of the soil is nevertheless of great importance. Heavy clay soils contain from 35 to 40 per cent of clay, and very sandy soils from 0.5 to 3 per cent. The ordinary humus content of a fertile soil is from 1 to 3 per cent. Both clay and humus have very valuable absorbent properties, by means of which moisture and excess of plant food are held in reserve for the plant.

It is well known that the physical processes of soil moisture, temperature, tilth, etc., are vitally important in the production of a crop. Since growing crops require enormous quantities of water, a liberal supply is imperative for a maximum crop. A cloddy field is therefore not at its best, since a proper supply of moisture can neither reach nor be retained in a soil of this texture. An excess of water is likewise injurious, since plant roots require air in their life processes as well as the portion above ground, and a poorly drained soil is a poorly aerated soil. Acids and other injurious products also develop in a poorly drained soil. The waterlogged soil is also a cold soil, as the excess of water retards the warming of the soil by the early spring sun, with consequent retardation to plant growth.

If a plant be subjected to chemical analysis the elements carbon, hydrogen, oxygen and nitrogen are found in its organic or combustible portion. In the inorganic ash residue we find the elements sodium, potassium, calcium, magnesium, manganese, phosphorus, sulphur, iron, aluminum, chlorine and silicon. The carbon, hydrogen and oxygen are obtained by the plant from the carbonic acid of the air and water. The elements in the ash, however, as well as the major portion of the nitrogen, are obtained from the soil. About fifteen of the eighty elements known to the chemist are thus present in the ordinary soil in various mineral and organic combinations. The elements calcium, phosphorus, potassium and nitrogen, the so-called critical elements, are the most important of these, as they are the ones in which soils most often become deficient. That they are essential to plant growth is readily shown by the failure of a plant to mature in a medium devoid of either.

The chemical elements of plant food exist in the soil in two forms, one available, the other unavailable to the plant for immediate use. A large proportion of this food exists locked up in insoluble forms, unavailable to the plant, the available food being slowly liberated from these by the natural weathering



A GLIMPSE OF HOMES IN THE RESIDENCE SECTION OF MEDFORD

processes. The soil water takes up from the finely divided clay most of the mineral elements of food required by the plant. The nitrogen of the soil is largely stored up in the humus, which is the chief source of plant nitrogen, as well as an important factor in holding soil moisture. Cultivation, drainage, etc., assist in producing available foods, and consequently render the soil more active. Most of our "worn out" soils are not completely deprived of plant food, but simply deficient in available food due to lack of proper systems of cultivation. It is difficult to determine the percentage of available food in a soil by chemical means, and, in general, the character of the crop produced is the most reliable index as to soil fertility.

The soils of our state are quite varied in character, due to difference in geological formation from which they are derived, as well as to different climatic conditions. They are, however, in the main, well stocked with plant food, as illustrated by the following table, the percentages being averaged from all analyses made thus far at the State Experiment Station:

	Potash	Lime	Phos. Acid	Humus
Western Oregon....	.23	.67	.23	2.81
Eastern Oregon.....	.36	1.25	.17	1.02
Southern Oregon....	.31	1.66	.14	2.22

By way of comparison it may be stated that the following per cents are considered by Dr. Hilgard of the California Station as lower limits of adequacy of the critical soil elements; that is, fertilizers may be usually applied with profit when below the following per cents of acid soluble foods are present in the soil: Potash, 25 per cent; phosphoric acid, 5; lime, 15; nitrogen, 10 per cent (equivalent to about 2 per cent of humus). It may be said, however, that the physical character of the soil and other conditions influence these values considerably, as, for example, heavy clay soils require a greater amount of lime for maximum results than a sandy soil, and different crops, under similar conditions, vary in their ability to secure these foods.

The humus content is quite low in many of our orchard soils as a result of clean cultivation, by which the humus becomes oxidized and lost. The growth of leguminous cover crops is a valuable means of restoring and maintaining this organic equilibrium.

Examination of the typical soils from the various fruit sections of our state show good soils from the chemical standpoint, with a supply of plant food which insures a long period of productiveness. The actual yields, in both quantity and quality, clearly demonstrate the marked fertility of Oregon fruit lands. It is difficult to say, except by actual experiment, what particular crop any soil is especially adapted to though the general requirements of many crops are somewhat well defined. Wheat, clover and vetch thrive on heavy clay soils. Light sandy soils are preferable for trucking and small fruits, on account of the ease with which they can be worked. Fruit trees in general require a deep, well-drained soil, which will permit of deep rooting and give ample moisture and consequent vigor to withstand exceptionally dry seasons.

The draft of fruit trees on the plant food of the soil is shown by the following table, which is taken from Bulletin 197 of the New Jersey Experiment Station. Comparison of plant food used by wheat and by orchards, per acre, for one year:

	Nitrogen Lbs.	Phos. Acid Lbs.	Potash Lbs.
Peach (average last six years)	64	18	40
Peach (New York Experiment Station)	75	18	72
Peach (Germany)	49	17	75
Apple (New York Experiment Station)	52	14	55
Apple (Germany)	50	10	51
Apple (Cornell)	59	17	81
Average	58	16	62
Wheat, 20 bushels, 1¼ tons straw	42	14	20

These results show that fruit trees are quite heavy feeders and that they use especially large amounts of potash. An examination of some old orchard soils of our state, recently made by the Experiment Station, fails to show, however, any marked depletion of potash in the soil—a significant fact as regards its lasting qualities. It is true, however, that in general trees feed deep and consequently have a greater available supply than a shallow feeding crop.



STRAWBERRY FIELD, MOUNTAIN STREAM AND HOME OF PROSPEROUS FRUIT GROWER NEAR ASHLAND



BERRY FIELD ON THE FRUIT FARM OF W. H. PAULHAMUS, PUYALLUP VALLEY, WASH.

FANCY fruit always brings fancy prices, no matter how much ordinary fruit is grown. A Stetson or Dunlap hat is $5.00 today the same as it was twenty years ago, regardless of the number of dollar hats made. An Earl & Wilson collar costs 25 cents today the same as it did years ago, notwithstanding there are millions of the "just as good" at 5 and 10 cents each.

SUMMER OR WINTER PRUNING FOR APPLE TREES?

BY MURRAY KAY

THAT the problem of how to prune is one of the most perplexing for the beginner in apple growing to solve is beyond question. A study of the methods of successful orchardists, and of the many horticultural writings on the subject, seems to tend to further complication and a general befogging of the matter. As a beginner in fruit growing it appeared to me of great importance that I fix upon a method of pruning at the outset which would at least give me some feeling of security, a definite idea as to what I was trying to do, and how best to obtain the desired results.

After looking into the matter so far as my facilities would permit, I arrived at a certain theory, which is at least fairly satisfactory to my own mind. It may be of use to some others similarly situated, and therefore I have taken advantage of this opportunity to state it.

In considering this subject let us, if possible, begin with a foundation of fact and try to ascertain by analysis to what it leads, and in this manner arrive finally at a method which shall be at least logically correct, and that may be pursued with a reasonable degree of confidence.

In so far as the consideration of a foundation of fact is concerned, we have primarily the old and familiar hypothesis, viz., "Winter pruning stimulates wood and discourages fruit, while summer pruning stimulates fruit and discourages wood." Now, if this is merely a hypothesis it cannot be used as a basis for argument or deduction. That it is a fact, however, may doubtless be safely assumed, as it is generally, if not universally, accepted as such by fruit growers, and, I understand, it is part of the instruction in the State Agricultural Colleges.

Just what one is attempting to accomplish by pruning and by tree culture in general should be clearly in mind, and I judge it to be the aim of most growers to build up a well-braced, vigorous tree, without regard to fruit production, till five years of growth be completed, and from that time forward a fair fruit production each year is desirable, a quantity which the tree can comfortably support, coupled with a proper wood growth to increase the area for future production. The word "pruning" in this discussion is intended to mean topping; however, the thinning out of branches is considered to have a similar effect, but in a lesser degree. With these fundamental assumptions in view, it may be well to note the methods used to achieve these results, and the point which stands out the clearest, perhaps, is that orchard men are, with scarcely an exception, either winter or summer pruners.

Now, I ask you is it possible to prune an entire orchard in either the former or the latter season, when some trees are strong on wood and weak on fruit, and vice versa? Can a tree which is fruiting heavily and making insufficient wood growth be pruned at the same time of year as one making abundant wood and little or no fruit? Obviously not. Apple growers frequently take off, in the process of thinning, two-thirds, nay, four-fifths of the fruit, and then persist in summer pruning exclusively to force fruit, when the tree is already setting more fruit than it can mature. This method, if persisted in, should eventually make a "shy bearer."

Another example is an orchard of five and six-year-old trees which has been winter pruned to date, and, in spite of this treatment, some of the trees are fruiting to a small extent. By winter pruning, again, it seems correct to conclude that the grower will simply do all that he can to prevent his trees from bearing, when they might easily support from one to two boxes of apples each, and make a suitable wood growth at the same time if allowed to do so.

Now, can a logical conclusion be reached and an exact working basis found consistent with the facts? Assuredly it can.

On young trees, cut heavily in winter till they are three or four years old, with the purpose of forming wood exclusively; then begin light summer pruning to slow down the wood somewhat and to encourage the formation of fruit spurs. The time to begin the summer work is stated at three or four years, but this period cannot be precisely fixed. Fruit spurs must be encouraged some seasons in advance of proper bearing time, as only a few of the spurs are likely to fruit the first year after their appearance, the remainder coming into bearing one or two years later. The time to do this work is when the twigs have reached their terminal bud, which is usually about August 1st. Then, and for the purpose noted, the twigs should be pinched back or topped lightly.

When the trees reach the bearing age, those making the proper quantity of wood and fruit should not be pruned at all till this balance is destroyed. Those making abundant fruit and too little wood should be winter pruned lightly or partially at first, in an attempt to make the correct adjustment between wood and fruit production. Those making abundant wood and insufficient fruit should be summer pruned, lightly at first, for the same reason. Therefore, in a bearing orchard, the work must consist of winter pruning, summer pruning

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NEAR ASHLAND DURING THE SUMMER CHAUTAUQUA MEETING



THE GREATEST PEACH ORCHARDS IN OREGON ARE TO BE FOUND IN THE VICINITY OF ASHLAND

AMONG FRUIT GROWERS OF THE PACIFIC COAST

PUYALLUP and Sumner Fruit Growers' Association (Wash.) has made what it considers a very advantageous contract with the Weber-Russell Canning Company for berries. The association is to supply the canning company with 100,000 12-cup crates of red raspberries at 4 cents a pound during 1907-1910, and 20,000 crates of blackberries at 3¼ cents a pound, also all of the canning apples that the members of the association may have, the price for the apples to be ½ cent a pound. In addition to this the canning company will take plums at ¾ to 1 cent a pound. This is said to be a very substantial contract and encourages the growers of the small fruit, as it establishes their industry there on a safe and sound basis. The canning company is required to furnish the cups and crates for carrying the raspberries, and it is also understood that where the raspberries show signs of having been carelessly picked, soft and matted down in the cups, they are to be paid for at the rate of 3½ cents a pound. Should the blackberries be supplied by the association in carriers furnished by the canning company, then the price per pound for the berries is to be 3 cents.



SCENES IN THE SOUTHERN OREGON FRUIT COUNTRY

The scenery of Southern Oregon is both varied and interesting. Seen from the railroad snow-covered mountains, rugged peaks, orchard and pastoral views present themselves in rapid succession

Grants Pass (Oregon) Union held an interesting meeting last month, at which a number of interesting topics were discussed. "Are Bees Helpful in Pollenization of Fruit Blossoms?" brought out the opinion by J. H. Robinson, a fruit grower of twenty years' standing, that they were. Mr. Robinson stated that in the nineteen years he had been raising fruit on his Applegate farm he had never had but one failure and but two partial failures of crops. This success he attributed to the energetic work of a number of hives of bees that he kept in his orchard. He told of an orchardist who placed a netting over half of the top of an apple tree and kept the bees from the blossoms. That half had very little fruit while the other half bore a big crop. The failures that he had were in the springs, when there was a long rainy spell that prevented the bees from working. He had found bees profitable for the honey they made, but if he got no honey at all he would yet consider the bees profitable for their pollenization work. J. T. Morrison was confident that the work of bees made a big strawberry crop more certain. He had observed that a small yield and the presence of many misshapen berries was certain when, owing to heavy rains and the absence of bees, the pollenization of the blossoms was interfered with. E. N. Provolt thought bees made a yield of fruit more certain. O. H. Perry asked if spraying killed the bees or injured the honey. Mr. Robinson answered that no spraying should be done until the blossoms had fallen, and as the bees were then through feeding there was no danger. It was also stated by C. W. Triplett, a successful Rogue River cherry grower, that if cherry trees can be kept free of gumosis for the first three or four years after planting they are then sure to bear profitably for a good many years.

According to a statement by Mr. John F. Moore, manager of the Grand Junction Fruit Growers' Association, the largest in the United States, the fruit crop in that part of Colorado is not as badly damaged by the frost as reported. In regard to the prospective yield Mr. Moore says: "From what I can learn from all sections of the valley and from personal investigations made by myself, our inspector, Mr. Chandler, and others of the association, I estimate that there will be harvested in Mesa County this season, or I had better say in the valley from the Grand Junction district east to and including the Palisade district, from 25 per cent to 35 per cent of what would have been a full crop of fruits of all kinds. I believe sincerely that this estimate is very conservative. I do not make this statement on the spur of the moment. It is not a guess, but an estimate made after careful investigations." This means that at least 600 cars of fruit will be shipped from Grand Junction this year, but Mr. Moore says it is possible the figure may be nearer 700. The shipment last year was 2,000 cars, of which the Grand Junction association shipped 1,200. Had it been possible to market a full crop this year it was expected to ship out between 2,500 and 3,000 cars.

Washington's fruit growers' associations are said by Assistant Attorney General Falkner of that state to be amenable to the law requiring commission houses to take out licenses and other regulations for the marketing of fruit grown by others than members of associations. In part Mr. Falkner's opinion is as follows: "If fruit growers' associations, outside of their own members, engage in the business of selling farm, dairy, orchard or garden produce, charge commission, or receive or solicit

consignments of such produce on commission, they should be treated the same as any other firm, company or corporation engaging in such business, and would be required to furnish a bond and procure a license, the same as a regular commission merchant. The word principal, as used in section 19, involves a question of fact, and not of law. It seems to be the intent of the state that if a person is only incidentally engaged in the business of selling farm, dairy, orchard or garden produce for a shipper or consumer, he is exempt from the law, especially if this business is carried on in connection with some other principal business. If it is a principal business and one carried on extensively he should be required to observe the law. The attorney general would advise you in case of doubt to insist upon a compliance with the law. The appropriation bill provides salary, traveling expenses and incidentals for the maintenance of the State Horticultural Commission. The enforcement of the commission merchant law is one of the duties of the Commissioner of Horticulture, and the appropriation made for the maintenance of his office can be lawfully expended in the enforcement of such law."

Hood River Fruit Growers' Union has been busy for the past month shipping berries. The berry crop at Hood River this year, while larger than that of the preceding season, was not as great as expected. The entire output was about 60,000 crates, which went at profitable prices. Most of the large shipments were sent to Minnesota and Dakota points, and orders were received for berries from Chicago and places farther east that could not be supplied. Almost the entire crop was handled by the union and the Davidson Fruit Company.

Douglas County (Oregon) Fruit Growers' Association, recently organized, has sixty members, and is holding some very spirited and interesting meetings. That it means business is evidenced by the fact that it has rented a large warehouse at Roseburg, adjacent to the railroad, and has had it renovated and put in shape for active work. It expects to commence shipping in a few weeks and the association is looking for a prosperous season.

Thurston County, Washington, got in line with an association recently, by adopting a constitution and by-laws and electing trustees, who are as follows: R. H. Carpenter, A. S. Caton, Fred W. Lewis, Harry Briggs and J. M. Noble. They will act for the association until next January, the date fixed for the annual election. The new association was incorporated with a capital of $10,000, divided into 10,000 shares at $1 per share. It is to be known as the Thurston County Fruit and Berry Growers' Association, and the trustees will have full power to appoint the officers, consisting of a president, vice president, treasurer, secretary and manager, and employ all help required. The officers will be required to give bonds of not less than $1,000 each, the exact amount to be fixed by the trustees.

Canby, Oregon, has organized a Strawberry Growers' Union to control the marketing and picking of its fruit. After adopting a constitution and by-laws, Charles J. Roth was elected president, J. Samuelson vice president, and Charles N. Wait secretary.

Wenatchee (Washington) Association has again secured the services of J. B. Olinger, who has been elected general manager. Mr. Olinger succeeded Mr. Paulhamus as manager of the Puyallup and Sumner Association, after having had charge of the warehouse of the

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IN THE EXTREME SOUTHERN PART OF OREGON ROSES BLOOM ALMOST ETERNAL AND MANY ASHLAND RESIDENCES ARE PARTLY COVERED WITH THEIR FRAGRANT BLOSSOMS

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ITEMS OF INTEREST TO COAST FRUIT GROWERS FROM SOME OF THE HORTICULTURAL SOCIETIES

LINN COUNTY (Oregon) Horticultural Society had a big meeting at Albany recently, which was addressed by W. K. Newell, president of the State Board of Horticulture, Prof. C. I. Lewis of the Oregon Agricultural College and M. O. Lownsdale, the well-known orchardist of Lafayette. Action taken resulted in the appointment of a committee to make arrangements to hold a fruit fair in Albany some time during the autumn months. Remunerative prizes will be given and all varieties of fruit are eligible to exhibition. Mr. Lownsdale is anxious to rehabilitate the apple industry in the Willamette Valley and during his remarks said: "Apple growing is an old industry in the Willamette Valley, in fact, almost coincident with the settling of the country. And it was valley apples that brought Oregon its very first fame in the East; that caused this state to be known as 'The Land of the Big Red Apple.' But of late years the valley's reputation for apples has fallen away. Naturally they are as good as ever, but we must eliminate the pests. Until a few years ago, when pests appeared, our apples were not surpassed by those grown in any clime." Mr. Newell thought that the hope of the valley fruit growers was in co-operation, and urged them to organize. In this connection he made a comparison between prices paid for small fruits by canners in this state and those received in California, where they were controlled by associations, and showed that the latter received better prices. In concluding Mr. Newell said: "Make a beginning on this proposition. Some of the largest associations of growers have started with but two or three men. Make a beginning, if only two growers band together. It will grow fast enough, once a start is made." Mr. Lewis told of interesting experiments to discover the keeping qualities of Willamette Valley apples and said that if properly handled they kept as long as those from other districts.

Yamhill County (Oregon) Horticultural Society is out for Better Fruit and more of it. A large meeting there June 7 pledged itself to help in making a fine exhibit of Willamette Valley apples this fall and to do all in its power to stimulate the fruit industry in that section of the state. The meeting was conducted by D. C. Van Dorm, president of the society, and M. O. Lownsdale was one of the principal speakers.

State Horticultural Commissioner F. A. Huntley, of Washington, who has been making a tour of the fruit-growing districts in the state, reports that orchard conditions, from every standpoint, are much better than ever before, and growers in a more prosperous condition.

The meetings of the Rogue River Horticultural Society are creating much interest in that section and are attended by crowds that fill the rooms of the Commercial Club. A recent subject for discussion was "Spraying," and some interesting information was brought out, among which was that given by C. N. Taylor about the codlin moth, who said: "I found full grown codlin moths Sunday, April 28, and found them ten miles from the nearest apple orchard, and on annual shrubs not akin to the apple tree. I had supposed that their destructive work was confined to the apple species alone. There is less known about the codlin moth than any other fruit pest that I know of, and I have come to the conclusion that we cannot depend on the blossoms to spray for the moth. A good time to use the spray is just before the moth gets in his work. I think the first



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brood of moths come from the packing houses and are produced by the culls that are left in the houses to decay, and the moths are hatched out in the rafters. The first brood is the most destructive and the strongest, and therefore do the most injury. I think that three sprayings will do the work, if we can do away with the first brood of moths."

Pierce County (Washington) Horticultural Society held its semi-annual meeting recently at Puyallup before a large and interested gathering. C. H. Ross, president of the society, in a paper on "The Needs and Aims of the Horticultural Society," among other things remarked: "We are here to receive instruction. We come here to get acquainted with each other; to learn each other's wants and get our neighbors' experiences. We are just starting, and need the sympathy, co-operation and assistance of our most up-to-date horticulturists. When we consider the variety and magnitude of the subjects which might properly be presented for discussion we are impressed with the importance of frequent meetings. The horticultural society which meets only once or twice a year cannot receive the benefits that come to those that meet more frequently. We want to know more of the methods of our most successful farmers and horticulturists; to profit by their experiences; shun their mistakes and imitate their virtues. We want to know why some men are always pleasant to meet, while others—one would go a block to avoid. We want to know whether it is because their wives give them sour bread to eat, or whether it is a case of bile on the liver."

The Idaho fruit inspection law is being enforced without fear or favor, according to the Boise Statesman, which says that State Fruit Inspector Hitt reports that William Buckley, deputy inspector for District No. 9, Kootenai, Bonner and part of Shoshone Counties, has recently had 7,000 fruit trees dug up and burned, because of their being so infected with insect pests as to be a serious menace to the fruit industry. And there was no real kick for this wholesale destruction, the owners believing that the case demanded that kind of treatment. These trees had been already set out. He reports considerable trouble with nurserymen, who persist in sending trees without having them properly fumigated. Two cars were held up, containing 17,000 such trees, and were fumigated at the cost of the shippers with hydrocyanic gas. The cars chanced to be new, and practically air-tight, so that the fumigation could be done right in the cars. The gas is one of the most deadly insecticides known, and where it can be well applied is infallible in its destruction of all insect life, including the San Jose scale. It was necessary to destroy 5,000 trees in one shipment that were so infected as to be a menace. Mr. Buckley says that fruit is unharmed by late frosts. John Adams, inspector in District No. 10, Twin Falls County, has just spent a month in looking over the fruit trees in his district. He burned one lot of 3,000 trees and another of 2,000 trees that were infected with disease. Mr. Adams says that peaches, apricots and sweet cherries will be affected in that part of the state, enough to be scarce, but that prunes, apples, sour cherries and other fruits will be a full crop from present indications.



AVENUE SCENE, ONE OF ROGUE RIVER VALLEY'S FINEST YOUNG ORCHARDS

Almost the whole world knows of Hood River as the place that produces the best fruits, and all of Hood River Valley should know and could know, that there is one place in Hood River under the firm name of R. B. Bragg & Co., that the people can depend on getting the most reliable dry goods, clothing, shoes and groceries at the most reasonable prices that are possible; try it.

SUCCESS CROWNING THE LARGER EFFORTS OF OREGON AND WASHINGTON FRUIT CANNERIES

THE building and equipping of canneries goes merrily on, and if Oregon and Washington fruit growers want to keep pace with them it is evident that more acreage will have to be planted. A good market for cannery fruit means a better one for other kinds, and no danger of overproduction, as the demand for canned fruit goods is far above the supply.



A FAVORITE HEALTH RESORT IN SOUTHERN OREGON

At Puyallup, Washington, the Weber-Russell Company has purchased a half block fronting on the Northern Pacific Railroad and will erect an $18,000 plant as soon as plans can be drawn and workmen secured to construct it. This company is also contemplating the erection of a cannery in Portland, and has been looking over the fruit-growing territory in the vicinity of that city to ascertain if it can be depended upon to supply products to keep it in operation.

The cannery proposed for Kelso, Washington, has been incorporated with a capital of $10,000, a site secured and an experienced cannery man gotten to operate it. With the thousands of acres of good fruit land near it is expected to prove a most profitable venture.

The Pacific Coast Syrup Company, of Seattle, packed 590 cases of currants, 1,908 cases strawberries, 5,908 cases Logan berries, 4,075 cases raspberries, 2,694 cases blackberries and 940 cases apricots. Total, 9,543 cases, or 229,032 cans of 2½ pounds each.

Sumas, Washington, is the latest to announce the establishing of a cannery. It will be located in what was formerly a hotel building, under the ownership of John Broder, and will have a capacity of five tons per day.

The work of installing the cannery at Brownsville, Oregon, is progressing, and it will soon be ready to begin operations. The canning company also has 139 acres in connection with the plant, which it is selling in five-acre tracts for fruit and vegetable raising.

The Fruit Growers' Association at Olympia, Washington, has decided to build a cannery, and have broken off the negotiations with parties from Seattle, with whom they had made arrangements to take it up. The association will undertake building the cannery and operating it themselves. After sufficient stock is subscribed the plan is to incorporate. Officers to operate the cannery have already been agreed upon, and are: President, A. S. Caton; vice president, H. B. Briggs; secretary, W. S. Haycox; treasurer, Fred Lewis. With I. N. Noble and R. H. Carpenter, the above-named gentlemen will constitute the board of directors.

The Wenatchee cannery report reads as follows: Apples, 4,890 gallons; pears, 6,900 gallons; peaches, 12,900 gallons; apricots, 3,600 gallons; berries and plums, 7,290 gallons. One-gallon cans were used largely in this pack.

The contract for the cannery at Monmouth, Oregon, has been let and materials ordered for its construction. Four acres have been purchased near town to provide a site, and the project is expected to be successful.

The Salem (Oregon) Mutual Canning Company began operations June 5, under favorable circumstances, with strawberries as the first product received, for which it paid $3.75 per 100 pounds.

The canning company recently organized at Grants Pass, Oregon, has purchased a tract of land near the Southern Pacific railroad track, on which it will erect at once a building 40x60 feet, two stories high. Orders for machinery have been placed and the plant will be so

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arranged that it can be enlarged when necessity demands. The company has also taken over the vinegar and spray factory owned by the Sampson Bros. The latter is said to have been very successfully operated for the past year and is thought to be a very valuable asset to the new canning company.

Following are some interesting statistics concerning the output of the Weber-Russell Canning Company for 1906: North Yakima—Apples, 22,900 cases; pears, 5,106 cases; peaches, 5,123 cases; plums, 4,867 cases; total, 37,996 cases, or 911,904 cans of 2½ pounds each.

likely that such growers may be soon selling their holdings at $1000 an acre and buying here and planting new orchards? A similar transfer of orange growers from one section of California to another has several times occurred. Many such cases are recorded where the net gain by so doing has been $500 to $600 per acre. Why should not the same thing occur in the case of walnut growers?—McMinnville Reporter.

Fruit packers as a rule have been very careless in the selection of the nails used in their packing boxes. "Any old kind"



CHERRY TREES IN BLOOM IN THE PUYALLUP VALLEY, WASHINGTON

Puyallup—Apples, 1,257 cases; pears, 1,832 cases; plums, 2,473 cases; blackberries, 15,764 cases; raspberries, 20,265 cases; total, 41,591 cases, or 998,184 cans of 2½ pounds each. Where one-gallon cans were used they were reduced to standard terms and figured at 2½ pounds each, for uniform results.

Forest Grove, Oregon, is still agitating the cannery question and hopes to be able to have a plant located there. A Boston firm has been negotiating to place a plant there, and it is thought they may decide to do so.

The Nooksack Valley (Washington) Fruit Association has completed its cannery, the building being 80x100 feet, two stories high. Its capital stock is $10,000, and it will be operated on the co-operative plan.

WALNUT INDUSTRY GROWING

A. C. Goodrich of North Yamhill was at Hillsboro recently, the delegate of the Walnut Club of this place. He secured from the expert walnut grafter, George C. Payne of California, the formula for his wax; also learned the method of unique and successful grafting.

An early meeting of the club will be called for members only, and those who become members, at which time Mr. Goodrich will give to the club the results of his visit. The extensive interest and the large plantings of walnuts in this county are beginning to attract the attention of California growers. Is it un-

seemed to be good enough. This is a serious mistake, as it is just as important that the nails be **just right** as is any other feature of the work. **Pearson Cement-Coated Wire Nails** are known by experts to be the best and cheapest. If anyone doubts this the following endorsement from the largest box manufacturers in the world should be convincing:

San Francisco, October 27, 1906.
J. C. PEARSON CO.,
315 Monadnock Building,
San Francisco, California.

Gentlemen: Replying to your inquiry, we beg to say that we are familiar with the merits of the PEARSON CEMENT-COATED WIRE NAILS and can confidently recommend them as *the best* nails that we know of for box making. Our experience teaches us that they drive easier, hold a great deal tighter, go farther and cost less than the ordinary nails.

Another important feature is that being slimmer than the common nails they do not split the box. They are found equally good in pine and spruce boxes. If universally used we believe that "box troubles" would be reduced to the minimum.

Yours very truly,
CALIFORNIA PINE BOX & LUMBER CO.
(Signed) G. X. Wendling, President.

Like every other meritorious article the Pearson nails have been counterfeited. In ordering, fruit growers should always be particular to ask for the **Pearson** brand to insure getting the best.

These nails can be obtained from Seattle Hardware Co., Seattle, Washington; Schwabacher Hardware Co., Seattle, Washington; Western Hardware and Metal Co., Seattle, Washington; Spokane Hardware Co., Spokane, Washington; Marshall-Wells Hardware Co., Portland, Oregon; Honeyman Hardware Co., Portland, Oregon.

FRUIT BUYERS ARE URGING ORGANIZATION OF GROWERS AND THE BETTER PACKING OF FRUIT

THE Strawberry and Rose Show held by Clackamas County at Oregon City June 8, was the center of more than passing interest. Apart from those attracted by the beauty of the flowers and the fine displays of berries were many commission men from Portland, among whom were W. B. Glafke, of the W. B. Glafke Company; T. Pearson, of the Pearson-Page Company, and Frank H. Page, Jr., of Page & Son, who judged the exhibit, and made brief talks. Mr. Page complimented the Clackamas County growers on the splendid quality of the berries shown and gave excellent advice relative to cultivation.

Mr. Glafke said that growers should find the berry best adapted to the soil and location, and then specialize on that particular berry in order that cars containing one variety could be made up. He praised the quality and condition of the berries of the county and said there was no reason why Clackamas County should not compete successfully with Hood River later on.

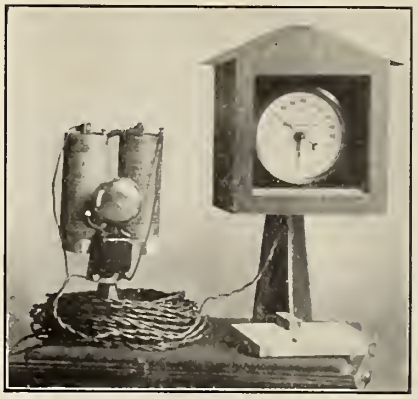
Mr. Pearson urged growers to organize at once. He alluded to the Clark Seedlings in the exhibit, and said he considered them as fine as the same variety from Hood River, which specializes on the Clarks. He emphasized the importance of careful packing, and said that berries, when crated, should be arranged so as to present an excellent appearance. Mr. Pearson illustrated his advice by speaking of the exhibit of Oregon berries, which while practically unknown as far as their commercial value extends, had been awarded a prize because of their attractive appearance in their crate.

The presence of the wholesale fruit men among growers urging them to organize, and to grow and pack better



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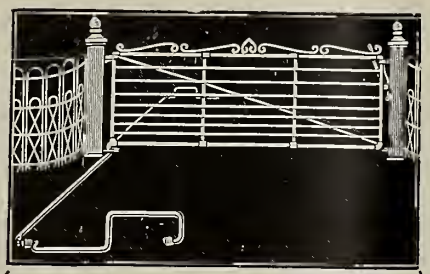
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fruit, is a step in the right direction. It shows that the wholesale man wants the best and is willing to help get it, and also to pay the top price for it.

The following are the names of the berries that took prizes and their growers:

C. P. Andrews, of Mount Pleasant, Clark Seedling, first prize for commercial value and fine quality; Albert Notz, of Clackamas, Clark Seedling, second prize, for quality and commercial value; A. F. Ford, prize for Magoon exhibit; A. H. Finnegan, of Canemah, New Improved Oregon, prize on packing for commercial use; C. W. Swallow, Maple Lane, prize for exhibit of Warfields; C. J. Roth, of Canby, special prize for largest and best collection from distance.

Ribbons were given for the following exhibits which received special mention: Dornan, A. H. Finnegan; Seedling originated in Clackamas County, R. K. Hartnell; Jersey, originated by the grower and exhibitor, W. B. Stafford; Magoon, J. R. Hunt; Magoon Plant, Thomas Hage.

One of the most interesting features of the exhibition was the wild flower show, which was very extensive and shows that the flora of Oregon is rich in specimens of native plants and flowers. The number of varieties and prize-winners were as follows:

Ruth Notz, of Clackamas, 56 varieties, the Dr. Sommer prize; Harold Waldron, of Oregon City, 47 varieties, the Lewellyn Adams prize; Mrs. E. B. Andrews, of Mount Pleasant, 35 varieties, the George A. Harding prize; J. M. Mark, of West Oregon City, 33 varieties, the Frank Busch prize. Special mention for rarity of exhibits: Miss Violet Johnson, wild fringe; Martha Parker, native or Mount Hood lilies; August Rakel, rhododendrons; Clara Schoenborn, Mount Balin.



Maxwell Smith, Dominion Fruit Inspector of Canada, Introducing His Proposed Fruit Marks Law at the Northwest Fruitgrowers' Convention at Seattle, January 18, 1907

WELL KNOWN EASTERN HORTICULTURIST SAYS WE RAISE THE FINEST FRUIT IN THE WORLD

DAVID R. McGINNIS, well known as a writer on horticultural and industrial topics, who has been making a study of fruit-growing conditions in the Northwest, says that the irrigated districts of the states of Washington, Idaho and Oregon produce the finest fruit known to the world's markets. This is particularly true of the great irrigated districts along the Columbia River and its tributaries, where a combination of warm sun and rich, basaltie soil bring about ideal conditions for producing a fruit which has the most fancy selling value of any raised in the world. Along the fertile valleys of the streams that constitute the drainage of the eastern slopes of the Cascades, from the Columbia River in Oregon, to the Fraser River in British Columbia, fruit is produced in respect to size, color and general excellence, unsurpassed by any other fruit district in the world. It is interesting to note that latitude seems to be unimportant for the production of these magnificent fruits. From Hood River, in Oregon, along the Columbia River and up the Snake River to and beyond Lewiston and Clarkston, and from the confluence of the Snake River with the Columbia, northerly from Priest Rapids and Wenatchee to the junction of the Okanogan and Columbia Rivers; thence up the Okanogan to and beyond the international boundary, and up the Columbia River from the mouth of the Okanogan to and beyond Kettle Falls, one section of this great stretch of valley land along these rivers seems to be about as good as another for producing these magnificent fruits. Throughout this great area seems to be the chosen home of the luscious peach, the sweet cherry, the native and the European grape, the finest quality of high-priced commercial apple, apricot, nectarine, English walnut, and all that array of delicious fruits which make the whole country, when irrigated, a very paradise of the earth.



HOW SIX BOXES OF SOUTHERN OREGON YELLOW NEWTOWNS LOOKED AFTER BEING KEPT UNTIL LATE IN THE SPRING

The Yellow Newtown Pippin Apples shown in the accompanying cut were grown in the George W. Barron orchard, eight miles above Ashland, Oregon, at the foot of the Siskiyou Mountains. They were packed in the fall of 1906, being wrapped in paper and a sheet of cardboard placed between the layers. The apples were part of thirty boxes taken to Ashland May 9, 1907, by Mr. Barron to be placed on sale there with other products from his ranch. In appearance they were a rich yellow, firm and had the flavor that the Yellow Newtown alone attains. The fact that they were packed as above stated and kept in a barn until taken to Ashland this spring without artificial means to preserve them, is said by many growers in that section to demonstrate the fact that the higher elevations in the Rogue River Valley produce better flavored and better keeping fruit than those lower down. It is also claimed that the apples have a better quality than those kept in cold storage

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THE natural home of the Spitzenberg and Newtown apples. Rogue River Pears have led the United States for the past three years in the highest price in the New York market. No peaches of the South excel those of Rogue River, and trees are healthy. Grapes perfection in color and flavor and the best of shippers, and growers have more orders than they can fill. Rogue River cantaloupes, watermelons and cassabas, none better and big money makers. The Grants Pass Fruit Growers Union gets the highest price for fruit, and the Southern Pacific gives terminal rates on shipments East. Climate the perfect medium between arid California and webfoot Oregon. No storms or winds to injure fruit crop. Almonds and figs ripen perfectly and palms grow in the yards. Land yet cheap but will double in two years. Now $5 to $100 an acre in small and large tracts, some on easy payments. American community and good schools, rural mails, telephones, etc. Full information by addressing CHARLES MESERVE, Seller of *Real Estate in All Parts of Rogue River Valley*. References by permission: Grants Pass Fruitgrowers Union, First National Bank of Southern Oregon, Grants Pass Banking and Trust Company.

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WHEN WRITING ADVERTISERS MENTION BETTER FRUIT

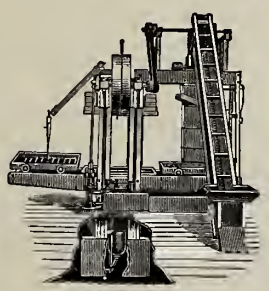
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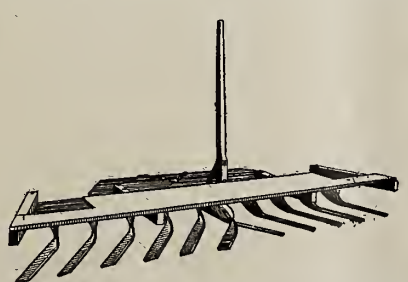
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S. P. KIMBALL, Salem, Ore.

THE LONG NEGLECTED PAWPAW BIDS FAIR TO BECOME A FACTOR IN COMMERCIAL ORCHARDS

The pawpaw has not been put under cultivation perhaps for the reason that it has always grown so plentifully in its nativity. The farmers back in the Eastern States formerly raised no objections to pawpaw hunters trespassing, but as the timber disappears and the land is put under cultivation, pawpaws are becoming scarce and land owners are complaining because there is a demand for the fruit and they say people might as well pilfer their apple orchards. Hence it is evident that the pawpaw will eventually receive attention and be brought under cultivation for home and market purposes. One of the characteristics of the pawpaw is that it always bears, yet there is an occasional season when only a light crop ripens on account of late frosts, but it generally bears some for it is a late bloomer. The pawpaw is indigenous in a few places in Eastern Oklahoma and might be profitably introduced to other parts of the state.—National Fruitgrower.

A FEW years ago an unintelligent setting of prunes on an extended scale before any market was created produced a case of supply in excess of demand. Intelligent work in the way of introducing fresh and dried prunes in attractive packages, improved marketing facilities, and the growing habit of eating fruit for breakfast, lunch and dinner, has readjusted conditions, and now supply and demand in prunes is balanced, consequently all along the line reports indicate good prices realized for prunes and nice net profits.



TWO SOUTHERN OREGON PRODUCTS HARD TO BEAT

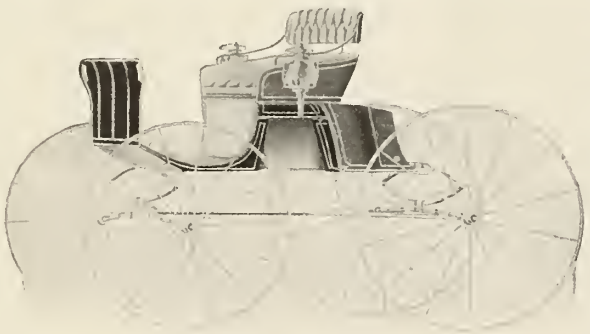
This limb of Bennett's Seedling Apples, containing 22 full-sized apples, hung in the Exhibition Building at Medford, Oregon, from October 1, 1906, to May 1, 1907, the fruit keeping in a perfect state of preservation, and is considered one of the coming commercial varieties. The apple originated with S. L. Bennett, of Medford, and is said to be a sport from the Baldwin. It is claimed to be far superior to that old-time favorite in quality and flavor, as well as keeping quality

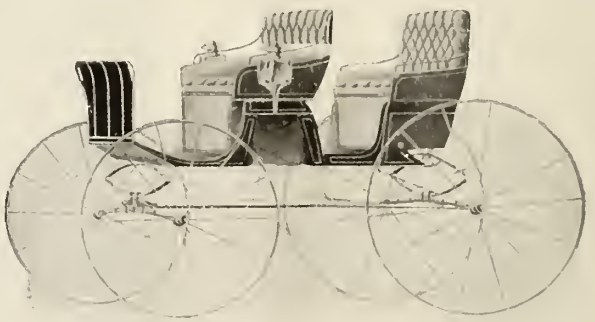
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And getting paid for getting it? We don't think you ever did, but that is what "Better Fruit" is going to give you an opportunity to do. To the person who will get us the most yearly subscribers in the next four months we will give this fine new *COMBINATION STANHOPE Carriage and Surrey* direct from the warerooms of Mitchell, Lewis & Staver, Portland, Seattle, Spokane and Boise, pictures of which appear on this page, and in addition a set of single harness, robe and whip, the entire outfit worth $200. This is not all; to the contestant getting us the most subscriptions during the month of June we will give a *$10.00 STANDARD UNABRIDGED WEBSTER'S DICTIONARY* something that should be in every household. We haven't forgotten our juvenile friends in inaugurating the contest, and to the one who gets us the most subscribers during the month of July we will give a brand new *$65 BICYCLE* of the best make, adapted to either sex. Further and better yet, to everyone competing in this contest, who is not fortunate enough to win the carriage we will give *25 cents in cash* for each subscription sent in. Names of contestants and number of names sent in by them will be published at end of contest and checks issued in payment. So get busy and don't think that because you may seem to be able to get only a few names that you have no chance of winning. "Faint heart ne'er won fair lady," or anything else, and remember that whether you get one or one thousand you will win if you get the most. Our offer has no strings on it and is unconditional. Participation in the contest for the dictionary and bicycle does not bar you from winning the carriage or the cash prizes, but the winner of the carriage will not participate in the cash prizes, so that everyone who enters the contest and makes a showing will get something. Our reasons for adopting this plan in the contest are because we have been told that we have the best fruit paper in the world and are willing to give those who will help us in making a still better paper, a share of our profits. The subscription price of "Better Fruit" is $1.00 per year and must accompany each name sent in, and address of subscriber. On request sample copies will be mailed those who wish to enter the contest, which closes September 1. Subscriptions must not be mailed later than August 31. Request for further information and all subscriptions should be addressed to





BETTER FRUIT PUBLISHING CO., Hood River, Oregon

Prizes will be delivered free of charge to any railroad station in the United States or Canada designated by the winner.
References: Butler Banking Company, First National Bank and Hood River Banking & Trust Co., Hood River, Oregon.

WHAT ADVERTISERS, SUBSCRIBERS & READERS SAY ABOUT "BETTER FRUIT"

WITH this issue we commence the second volume of "Better Fruit" amid the plaudits of fruit growers and horticulturists and the approval of our advertisers. In one year we have obtained 4000 individual paid subscribers in addition to a circulation of 1000 additional copies that are taken by business and commercial organizations and sold by newsdealers. From nothing to 5000 in a year. For this we do not take any particular credit to ourselves, except that we have tried to give the fruitman the best paper for his needs that we could, and feel that we have at least fairly succeeded, as to him we owe our present healthy subscription list, which is largely voluntary. It may interest our readers to know what patrons of our paper say about us, and below will be found a few extracts from their letters:

My Dear Mr. Shepard: You certainly deserve a great deal of credit and encouragement for making the grand success you have in your literary venture in publishing "Better Fruit." I want to tell you confidentially that it is **the best** fruit growers paper in the United States. Its merits above all other papers of its class are: First, you tell your readers in the simplest and best of English **how** to do the thing, and **why** it should be done that way. Second, and not the least important of the two points you **inspire** the seeker for correct information with **the ambition** and **enthusiasm** to succeed. Yours truly, J. GASTON, Portland, Oregon.

"Better Fruit,"
Dear Sirs: Enclosed find $1 for "Better Fruit" for one year. We received a copy from our friend, W. C. Hopson, of Milton, Oregon, and desire to continue to receive it, as we find there is a whole lot of news to be had through it. Yours truly, IVES & WYNN, Commission Merchants, Philadelphia, Pennsylvania.

"Better Fruit,"
Dear Sir: Am much pleased with sample copy of "Better Fruit" just received. Although I take half a dozen fruit papers already, I feel I cannot do without "Better Fruit." Enclosed find $1 for year's subscription. Yours truly, T. N. RITCHER.

Gentlemen: I have received your specimen copy of "Better Fruit" and have pleasure in sending you $1 as a year's subscription. It is the best journal in the fruit line I have seen and am especially pleased with your exclusiveness. Yours, J. F. DANGERFIELD, Scappoose, Oregon.

Mr. E. H. Shepard,
Dear Sir: The copy of "Better Fruit" has been received. It is not only nicely printed on good paper, but is full of reliable horticultural matter. Yours truly, W. J. GREEN, Ohio State Experiment Station, Wooster, Ohio.

"Better Fruit,"
Gentlemen: May edition of "Better Fruit" received this morning. As usual it is one of the handsomest publications that comes to our desk. Yours truly, STARK BROS., Louisiana, Missouri.

Mr. E. H. Shepard,
Dear Sir: The receipt of the early numbers of "Better Fruit" is acknowledged with thanks, and our file made complete to date. I hope to receive for this library future numbers as issued and shall take pleasure in calling the attention of our members to your interesting magazine. Very truly yours, WILLIAM P. RICK, Secretary, Boston, Massachusetts.

"Better Fruit,"
Dear Sir: Certainly your readers ought to appreciate your publication, for it is not only printed in a mighty good fruit country, but it is one of

Will you change the address of my copy of the best fruit paper ever published from Columbus, Ohio, to Logan, Utah, and oblige, yours truly, E. D. BALL

the best printed publications in America. Wishing you much success we are, yours truly, THE FRUIT GROWER CO., St. Joseph, Missouri.

"Better Fruit,"
Dear Sirs: I never lose an opportunity of speaking a good word for your excellent magazine, and have the pleasure of handing you another name for your subscription list, which you will find enclosed. Yours truly, W. J. BRANDRITH, Ladner, British Columbia.

"Better Fruit,"
Dear Sirs: I want to speak a word for "Better Fruit." It has a way of putting value into every issue, while most publications of its kind talk all around their subjects, but seldom give beneficial information. Yours truly, G. C. KINSMAN, Decatur, Illinois.

"Better Fruit,"
Gentlemen: Enclosed find $1 for "Better Fruit" for another year. I like your paper very much and have recommended it to a number of others. Yours very truly, C. J. A. LINDQUIST, Ogden, Utah.

"Better Fruit,"
Gentlemen: Enclosed find money order for $1. Send "Better Fruit" for one year. It is O. K. Best of its kind. GEORGE W. TRIPLOW, Weiser, Idaho.

Mr. Thomas Richardson,
Manager Portland Commercial Club.
Dear Sir: The copy of "Better Fruit" which you have advised me I would receive is at hand. The journal is something of which you may well feel proud, and I am sure it will do much towards giving its foreign readers an idea of the immense possibilities for fruit growing in Oregon. Thanking you for remembering me, I am, yours very truly, L. R. TAFT, Horticulturist, Agricultural College, Lansing, Michigan.

"Better Fruit,"
Dear Sirs: Enclosed please find check for $2 to pay for my subscription to your valuable paper for two years. If you have the back numbers send me same. I am so pleased with your sample copies that it seems impossible to raise fruit without your paper. H. M. THANKE, Finley, Washington.

"Better Fruit,"
Gentlemen: Please run enclosed adv. for two months. Call our attention to it when it expires. Will want more space, for we have secured more subscribers directly traceable to our adv. in your publication than in any other. Yours truly, PRODUCE REPORTER CO., Chicago, Illinois.

"Better Fruit,"
Gentlemen: Your sample copies of "Better Fruit" received, bright-faced little fellows, making us wish for a further acquaintance. Please send me a year's subscription beginning with the June number. Yours truly, J. LANDRETH, Palisades, Colorado.

Mr. E. H. Shepard,
Dear Sir: Enclosed find $1 for "Better Fruit." Would like to have my subscription commence with January number if you have it. Yours truly, A. A. EASTMAN, Dexter, Maine.

"Better Fruit,"
Dear Sir: I want regularly three copies of "Better Fruit," instead of one, two copies to be used as reference in future years. Very truly yours, A. A. SCHENCK, Omaha, Nebraska.

"Better Fruit,"
Dear Sir: Enclosed find $1 for my subscription to "Better Fruit." I like your paper very much. I'll be a regular subscriber in the future. J. M. FRANCISCO, Cashmere, Washington.

Capital $50,000 Surplus $12,000

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VEHICLES AND AGRICULTURAL IMPLEMENTS

THE BEST OF ORCHARD AND GARDEN TOOLS A SPECIALTY

J. R. NICKELSEN
HOOD RIVER, OREGON

"BETTER FRUIT" WELL LIKED BY INSPECTORS

FROM GRANTS PASS COURIER

THE May number of "Better Fruit" is, typographically, one of the handsomest magazines published in the United States. The title page in colors is a work of art, while the halftone pictures illustrating the various articles are of the best known to the engraver's skill. Editorially, "Better Fruit" covers the horticultural field so thoroughly that each number is worth the year's subscription of $1, and the copies should be preserved and bound for a reference book. Every feature of the fruit industry is treated most thoroughly, and the information given is strictly reliable and embodies the experience of the most up-to-date orchardists and of the researches of the agricultural colleges and of the Department of Agriculture. A strong feature of "Better Fruit" is that each phase of orchard work is treated exhaustively in the numbers current to the season of the year. The April and May editions have been devoted largely to spraying, especially for the codlin moth, and orchardists who will fully follow the instructions given will have no loss from wormy fruit.



WHILE NOT IN THE FRUIT LINE IT IS EVIDENT SOUTHERN OREGON DOES NOT LACK FOR PIE

As a part of the campaign of education for bringing the fruit industry of Josephine County up to the Hood River standard—the $3.15 box f. o. b. price—Fruit Inspector Meserve has made a special effort to push the introduction in this county of Hood River's famous paper and he has sent in 150 subscriptions to "Better Fruit." He expected to increase the list at the fruit growers' meeting last Saturday, but every one of the twenty-eight orchardists and the one nursery agent present were already subscribers. When there are 200 subscribers to "Better Fruit" in Josephine County and they have read it for a year, then will there be a hall full at every fruit growers' meeting, even though it is a busy season of the year.

THE process of pre-cooling will undoubtedly, when carried to perfection, revolutionize fruit carrying. It is claimed much riper fruit can be marketed in this way, which means better flavored fruit for consumption. It is asserted that ripe pre-cooled fruit carries better than green fruit under ice put in fresh from the orchard.

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CLINTON J. KURTZ
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WHEN WRITING ADVERTISERS MENTION BETTER FRUIT

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Mosier Valley Fruits

Portland, Oregon

FOR HIGH PRICES *AND* FRUIT WORTH THE MONEY

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of Hood River, Oregon

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Our mission is to give the growers good prices, and the buyers fruit of such quality as will enable them to make satisfactory profits.

Our specialties are APPLES and STRAWBERRIES, but we handle all kinds of fruits grown in this section, including Pears, Plums, Cherries, Blackberries and Raspberries. If you are a buyer write us. If a grower call and see us, or telephone Main 71.

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10,000,000 Strawberry Plants

75 Varieties

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SARCOXIE, MISSOURI

Ryan & Newton Company

Wholesale Fruits & Produce

Spokane, Wash.

We have modern cold storage facilities essential for the handling of your products.

Reliable market reports

PROMPT CASH RETURNS

PEARS WERE HIGHLY PRIZED BY ANCIENTS

A DELICATE fruit, and a favorite with most people, is the pear. And yet the gracefully shaped, sweet, juicy specimens that fill our markets today show little resemblance to the long-ago pear, which was puckery and small. The old Roman, Pliny, writes, "All pears whatsoever are a heavy meat unless they are well boiled or baked."

Moreover, never was a thorn-bush more beset with thorns than the pear tree in its original state. But gardeners have labored with it till these nuisances disappeared forever, years past.

Greece and Syria and Egypt seem to have been the first homes of the pear, and it was, of course, introduced into Italy, at the time when the Romans searched the world for luxuries. The varieties of pears were promptly made Roman by receiving the names of the Roman emperors. The French Huguenots were probably the real starters of pear raising in this country. There are still very old trees to be seen in Long Island and Illinois, dating back to their time.

Pear trees cannot be induced to produce fruit on their old branches, but only on spurs growing from wood less than a year old. On the points of these spurs come the buds, the white blossoms, and at last a decidedly smaller number of the pendulous fruit.

The trees themselves reach great ages, and it is said that the older a pear tree is the more compact and strong is its wood. In New Brunswick is one over 150 years old. In one year it bore 28,600 pears. There are pear trees in France that have their ages given as 400 or thereabouts. An English specimen measures 14 feet about its trunk and 56 feet in height.

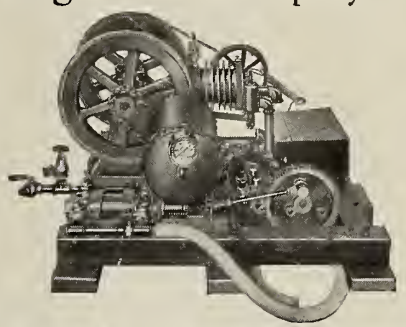
In most mythologies, while the apple is the symbol of discord and the source of trouble, the pear is a fruit of good omen. It was thought that to dream of a ripe pear meant the coming of great riches, and the Roman brides were always given a pear to eat to insure good luck. We are told of a certain pear whose fragrance inspired one to write poetry, and of others which restored aged gods who touched them to youth.

Perhaps most curious of all the odd things accredited to the pear tree is the origin of barnacles. An old English writer assures us that in Greece there grew "trees which bore small pears of a white color which contained little living creatures; which shells in time of maturity do open, and out of these do grow those little living things, which, falling into the water, do become fowls, which we call barnacles."

GOLD HILL, Oregon, is trying to induce the Ashland Preserving Company to erect a cannery at that place. It is possible that the matter will be considered if the surrounding country warrants it.

LET every one who believes in "Better Fruit," and who wants to see his district do better work, get his fellow fruit growers to subscribe. THAT IS ALL.

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WHEN WRITING ADVERTISERS MENTION BETTER FRUIT

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HOOD RIVER, OREGON

A Monthly Illustrated Magazine Published in the Interest of Up-to-date Progressive Fruit-Growing & Marketing

All Communications should be Addressed and Remittances made Payable to the Better Fruit Publishing Company

E. H. SHEPARD, Editor and Publisher
W. H. WALTON, Associate Editor
CHRIS GREISEN . . . . Solicitor

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IN ADVANCE IN THE UNITED STATES & CANADA
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ADVERTISING RATES FURNISHED ON APPLICATION
Entered as second-class matter December 27, 1906, at the post office at Hood River, Oregon, under the act of Congress of March 3, 1879

IN his article on "Reference of Soils to Fruit Requirements," Professor C. E. Bradley, assistant chemist at the Experiment Station of the Oregon Agricultural College tells both intelligently and interestingly of the necessary elements for fruit crops. This is an important phase of fruit growing and one that should be watched carefully. Where fruit soil may possess several qualities that are most essential it may lack others that should be supplied, and knowing your soil is as necessary to success as knowing your trees. In simple but adequate language Mr. Bradley explains how to do this and gives statistics as to the exhaustive effect of fruits and grains on various soils and in different parts of the United States and Europe, and their proportion of constituent fruit growing elements. While the comparatively new soil of the Northwest may not as yet need much artificial help for productivity, it is well to know it if it does and to provide against soil exhaustion.

EACH year sees a larger tide of Eastern buyers turning westward for fruit, and this year is not an exception. Buyers representing some of the largest fruit-handling concerns in the world have already been to the Coast to get in touch with the coming season's crop, and the pilgrimage is not yet ended. Philadelphia and New Orleans will enter the far western markets this year, and vie with New York for a share of the business. For the high-class trade and for export, the box fruit of the West is fast increasing in demand and getting a wider market. With fruit going across the Atlantic and Pacific Western apples are encircling the globe.

IN selecting nursery stock the cardinal point is to secure trees that are healthy and true to name. No other point is more important and more often violated or evaded by the unscrupulous nurseryman. We have refused to accept advertisements from nurserymen who we did not consider reliable, and for that reason believe we have received the patronage of some of the most desirable nurseries, as will be seen by reference to our advertising pages.

THE growing of small fruits in the Puyallup Valley, Washington, has reached the stage where it is no longer experimental. It is probably carried on more successfully and on a more scientific basis than anywhere on the Coast. Like all other branches of fruit growing the small fruit must be carefully nurtured and cultivated at the proper time. The red raspberry and blackberry are not exceptions to the rule, and an understanding of their habits is most essential. As a grower of these varieties of berries, Mr. Paulhamus tells his readers not what they should do, but what he has accomplished, and we may add that he has been successful, although with becoming modesty he does not say so. He gives his berry fields the same careful attention of detail that a business man who would succeed does his affairs and before he does anything knows why. By studying the processes of nature Mr. Paulhamus has arrived at successful conclusions, and is one of those who pave the way for the thinking fruitman.

The Webster's Standard Unabridged Dictionary offered by us to the one getting the most subscribers during the month of June was won by William Buckley of Coeur d'Alene, Idaho, who sent us ten new names

PERSONAL MENTION

William A. Taylor of Washington, D. C., pomologist in charge of field investigations of the United States Agricultural Department, was an interesting visitor at the office of "Better Fruit" during the month. Mr. Taylor was on his way back from California, where he had been making investigations about shipping the citrus fruits of that state, and stopped off at Hood River for a similar purpose in regard to apples and strawberries. Professor Taylor knows the gamut of the fruit districts of the United States from Florida to Mexico and from coast to coast. Under him experiments have been made by the Agricultural Department that have resulted in the saving of a high percentage of the orange crop in shipment. A pleasing conversationalist, his remarks on the fruit industry are well worth hearing.

Another horticulturist who made a short visit to our office was S. W. Fletcher, professor of horticulture at the experiment station of the Michigan State Agricultural College at Lansing. Mr. Fletcher had been in California also, and was on his return trip East. He was very much interested in what he had seen in the Western fruit country, and especially so by his visit at Hood River. The packing and shipping of strawberries was more particularly what Mr. Fletcher came to Hood River to get information about, and remarked before leaving that when it came to packing fruit Michigan took off its hat to this district.

Thomas Judd, president of Utah's State Board of Horticulture, accompanied by J. P. Taylor, its secretary, found things of sufficient interest to detain them for a day at Hood River, and made a call at our office. Mr. Judd is an orchardist of note, and has many acres of fruit trees on his properties in Utah. He believes that conditions for growing apples are possibly superior in Washington and Oregon to that of his home state, but thinks Utah has a great future for the cultivation of the peach. Mr. Taylor, who is a graduate of the Agricultural College at Logan, is very much interested in anything that will help to benefit Utah fruit growers, and stated that his stay at Hood River had allowed him to gather some valuable information.

We also wish to acknowledge a call from C. C. Clarke, recently graduated from the Oregon Agricultural College at Corvallis. Mr. Clarke will assume charge of the horticultural work at the experiment station at Union, Oregon, under Professor Robert Withycombe. This is one of the most successful stations in the state, 640 acres being at the disposal of it for experimental work. Heretofore it has been largely used in the propagation of grains, but will now take up horticulture. Some valuable work has been done by Mr. Withycombe in the interest of Eastern Oregon grain farmers and it is expected he will be equally successful in horticultural work.

George C. Stiles of Minneapolis, Minnesota, who makes a specialty of cases involving the common carrier law, called at the office of "Better Fruit" to let us know he was on the Coast. Mr. Stiles has been very successful in righting the wrongs of growers and shippers who had found it necessary to appeal to the courts for redress from transportation companies. Mr. Stiles has found it necessary to establish offices in many of the big Eastern and Middle Western cities, and takes an active interest in the fruit industry apart from his profession.



FRIEND SPRAYING APPARATUS FOR REACHING HIGH TREES

SUMMER OR WINTER PRUNING OF APPLE TREES

Continued from page 11

and no pruning, depending on the condition of each individual tree as to wood growth and fruit production. In short, a tree's performance is the index to govern in its treatment, and each tree makes its own separate demand as to when it shall be pruned.

Let us step into our bearing orchard in February, if we are so fortunate as to possess one. Here is a tree which required much thinning of fruit last year and from which we marketed twenty boxes of apples (pleasant thought, at Hood River prices). The wood growth is light. Let us cut out some of the interlacing branches and top a few of the longest shoots. This should decrease the fruiting slightly, tend to make the apples larger, reduce the work of thinning, and put the tree in a more vigorous condition of wood making. The next tree we find has made a very heavy wood growth and produced six boxes of apples last season. Touch it not, gentle brother, and if it does not bear more apples next year, top it lightly in August; but if its supply of fruit next season is proportionate to its size, do not prune it in August, or at all, till wood or fruit gets the upper hand. If it bears more than is good for it, prune the following winter. Among our four and five-year-old trees here is one somewhat smaller than its fellows, which made only a light growth last season and set a number of apples. It has many fruit spurs. Cut into it heavily to promote wood. Next in the row is a large and vigorous tree on which some of last year's shoots are four feet long. Do not touch it till next summer, when it should be topped to induce fruiting.

In conclusion, I repeat that one cannot omit pruning, nor can he prune in winter, or in summer, all trees in their varying conditions of wood and fruit, as found in every orchard. This is my contention in a nutshell. Bear in mind, fellow beginners, that this is theory only and not backed up by actual test. Some of the experienced growers and careful students, by whom I am surrounded, may smile indulgently at my expense. I have approached this subject, however, with all humility and diffidence, and if my conclusions are of even slight benefit to beginners in orchard work I shall feel well repaid, and if they should cause some of the veterans to give us their side of the question we may get some valuable points, which is what we are all after.

AMONG FRUIT GROWERS OF THE PACIFIC COAST

Continued from page 13

Wenatchee Association for the season of 1906, and as manager at Cashmere the year previous. Wenatchee growers are said to be pleased at his return and are looking forward to a prosperous season.

Grande Ronde Valley (Oregon) fruit growers say that the reported damage to their fruit has been exaggerated and that they will have a good crop. Preparations are being made to market a larger crop than the average, and a better system for irrigation of fruit lands has been provided this year than in any previous season.

Whatcom County (Washington) Fruit Growers' Association adopted a resolution just before the berry season commenced that members should market their fruit through the association this year. Previously they have sold to the consumer direct, thus creating competition among themselves. By having the association market the berries it was expected to secure a fair and standard price for all.

Grants Pass Fruit Growers' Union's annual meeting was held last month. A prosperous year was reported by the officers of the union, and an effort will be made to have a better and larger organization during the coming year. J. H. Robinson was elected president, J. W. Colby vice president, and Charles Meserve re-elected secretary and manager. The board of directors is as follows: J. T. Morrison, J. W. Colby, C.W. Triplett, J. T. Mackin, R. A. N. Reymers, R. M. Robinson, J. H. Robinson, E. Erickson and C. F. Lovelace.

IN thinning, will one of the apples of the outside clusters be as perfect and large as the center one? "Better Fruit" would like a few practical growers to note results along this line, and give us their conclusions. There are three ways of thinning apples, cutting with scissors, snapping off, and skinning them down. The scissors way is slow and expensive. Skinning down is apt to improve the flow of sap, if many hang in the surrounding cluster, and snapping off leaves stem stubs. Growers under the editor's observation have practiced all three ways. It is our belief that snapping is the quickest and best, and so far as observed the fruit was in no way injured by the stub stems.



SHOWING THE PRODIGALITY OF SOUTHERN OREGON TO THE FRUIT GROWER. WITHIN A COMPARATIVELY SMALL AREA ARE GROWN NOT ONLY THE FRUITS OF THE TEMPERATE, BUT THOSE OF THE WARMER CLIMES AS WELL

REPRESENTATIVES FROM EASTERN COMMISSION HOUSES SIZING UP THE WESTERN APPLE CROP

THE annual pilgrimage of apple buyers to the Pacific Coast has commenced and a number of representatives of some of the largest fruit-handling concerns in the world are visiting the Coast. "Better Fruit" acknowledges a visit from several of them during the past month, among whom are G. H. Shuttleworth, representing Simons, Shuttleworth & Co. of Liverpool; Simons, Jacobs & Co., Glasgow, and Garcia, Jacobs & Co., London. Mr. Shuttleworth was accompanied by W. M. French, of Simons, Shuttleworth & French of New York, and together they were making their first tour of the apple belt of the Pacific Northwest. It is the belief of these gentlemen that the Newtown Pippin and Spitzenberg attains a finer state of perfection in the Northwest than in any other section, and outlasts in keeping qualities. The firms they are connected with make a specialty of handling apples for the export trade, taking the fruit largely on consignment. They have been very successful in marketing it, and it is probable they will hereafter make a visit to the Northwest an annual affair.

R. P. Loomis, of the firm of E. P. Loomis & Co., who last year entered the Western field for apples and secured the fruit of the Hood River Apple Growers' Union, is not content with selling apples, and has gone into the business of growing them. Almost under the shadow of Mount Hood, Oregon's famous snow-capped peak, he has laid out a fine orchard, built himself a neat cottage of the bungalow type, and this summer is spending his vacation there far from the scene of the hurry and bustle of the fruit business in little old New York, his home town. The Loomis company is reckoned as one of the solid firms in the New York apple business, owning a cold storage plant that is one of the largest in the country and making a specialty of fancy fruit for the high-class trade.

Horace G. Day of Sgobel & Day, pioneers in the buying and selling of Western apples, did not neglect Hood River this year. Mr. Day was here to look up the apple situation, after having swung around the circle. For several years he bought the Hood River product and shipped it into New York before other apple men in that city got wised up as to where they were coming from, and is probably more familiar with the qualities and possibilities of Oregon, Washington and Idaho fruit than any of his competitors. Enterprising but conservative he is looked upon by his fellow business men as the dean in introducing the Western apple in Eastern markets.

Oyster Bay, New York, the summer home of President Roosevelt, had a representative in Oregon and Washington recently "just a looking around" in the person of J. G. Barnett, of Joseph G. Barnett & Co., New York and Riverside, California. Mr. Barnett stopped off at Hood River on his way back to Gotham from California. It was his first visit, but he promised to come back next year, and we hope he will. The Barnett Company has been getting fruit from California for a number of years, and is an old and well known firm, having been established since 1877.

A new firm to enter the list of Western apple buyers this year is Appel & Ujffy of New Orleans. This firm has a large business in the Southern States and has been covering California for some years. They are after deciduous fruits of all kinds, and are said to be the largest wholesale fruit house in the South. Having a cold storage plant they are prepared to receive shipments early for the late winter and spring trade.

Crutchfield, Woolfolk & Gibson of Chicago are in line for business and will make an effort to obtain shipments of fancy Western fruit in the near future. As the season is a little early they have not been represented personally as yet, but later expect to make the round of the fruit-growing districts of the Far West and size up the situation.

The coming of the apple season in the Northwest and Colorado country would not be complete without a visit from big and genial George Rae. As everybody knows, Mr. Rae is a member of the well-known firm of Rae & Hatfield, New York, who have for a number

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of years been handling many carloads of Western apples. No more interesting apple man comes to Hood River than Mr. Rae, who knows his subject thoroughly from Ben Davis to Spitz and from Wenatchee to London. Having learned the business from the ground up, when he goes to Missouri he does the showing and has a memory for dates and figures that would make a clairvoyant turn green with envy. He thinks the apple crop will be somewhat short this year, but believes there will be enough to go around at that. On a trip he took to Europe this spring he discovered that citizens in Berlin knew more about New York than he did, which is saying a good deal, and says that anybody who springs the idea on him again that Germany is a cheap country in general will receive the icy stare. For several years Rae & Hatfield have handled some of Hood River's high-priced apples very successfully, and are buyers also of fruit from Southern Oregon, Wenatchee, Yakima and other apple centers on the Coast.

Talk about Yellow Newtown Pippins and if George Crossley, of D. Crossley & Sons, New York, Liverpool and Boston, is near you will have an attentive listener. Mr. Crossley was one of the first to arrive on the Coast this year and took in all the districts where they grow the Newtown and then some. Rogue River, Wenatchee, Yakima, Hood River, Walla Walla, points in California and stops in the Middle West were on Mr. Crossley's itinerary, and dust and bad weather did not alter his schedule. Apples for the export trade are the Crossley Company's hunch in addition to supplying a good share of Boston with high-class fruit, and operating also in the New York market. Mr. Crossley is almost as familiar with the Western apple country as he is with England, of which he is a native, and came early to avoid the rush.

Ives & Wynn, the well-known commission merchants of Philadelphia, will this year make a stronger bid for Western fruit business, and are anxious to secure some of the fancy fruit that has been going to other cities. This firm last year secured ten cars of prunes at Milton, Oregon, and Walla Walla, Washington, which they state gave good satisfaction, and are now in the market for box apples. For a number of years they have been handling some of the finest products sold in Philadelphia and are said to be able to place box goods at a good figure.

Chicago claims to have the biggest apple-handling concern in the United States in the firm of F. Newhall & Sons, whose representative has not as yet put in an appearance, but is expected in the Yakima country shortly, and no doubt will take in other districts. The Newhall Company expects to cover the territory embracing Washington, Idaho, Oregon and Colorado during the coming season, as well as other points that have shipments large enough for them to handle.

W. N. White & Co., New York, will be in the market this year as usual for Western apples for the European trade. As yet their representative has not reached the Coast, but is expected to arrive soon and visit the various fruit-growing districts. This firm ships to London, Liverpool, Manchester, Paris, Hamburg and Bremen, and has a well sustained reputation for placing high-grade fruit in these markets at high prices.

FOR SALE

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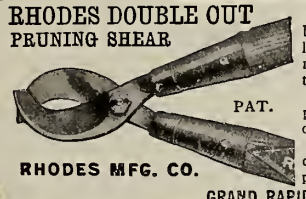
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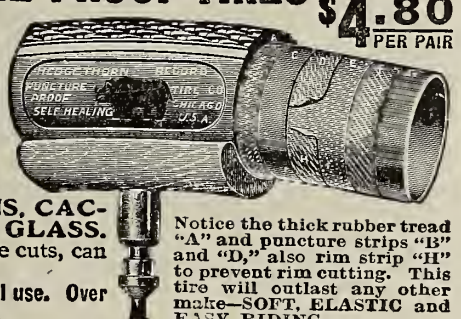
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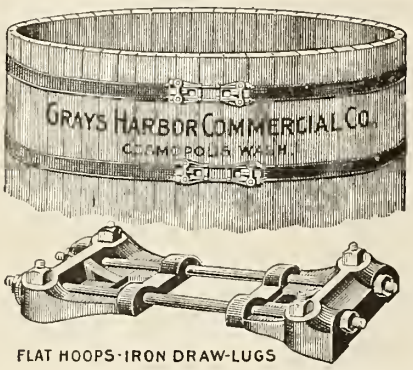
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EARLY CLIMATE
MEANS DOLLARS IN THE BANK

To the growers of fruit, grapes and berries at Kennewick, Washington. Did you ever stop and think what early climate means? It means strawberries ripe May first, and $15 per crate. It means ripe gooseberries in April, and $3 per crate. It means ripe peaches July first, and $2.50 per box. It means ripe apricots in June and $1 per basket. It means easy money to the grower, and a full pocketbook to the fortunate man who farms Kennewick Land. Kennewick is a delightful place for a home, and is rapidly filling up with satisfied people. There is more than $200,000 in concrete buildings now erected or in course of construction in Kennewick. The Shipping facilities are the very best. We have two railroads and another now building, and an open river to Portland. Kennewick is in the midst of a vast area of irrigated lands, and the choicest lands can be had from $125 to $200 per acre on easy terms, all with perpetual water right under the Northern Pacific great canal. Would you know more about the great Kennewick country? Write for photographs and maps to the

KENNEWICK LAND CO., Kennewick, Washington

The largest and oldest Real Estate firm in the Great Columbia River Early Fruit Belt

THE HORSE BUYER

Who used as little judgment as many tree buyers, would be considered an "easy mark." He would have "horses" enough on his hands in a few hours to keep several canneries in operation for months. The horse buyer who would buy any equine solely by price, just so he had a leg at each corner and a head and part of a tail, is not half as foolish as the man who owns land worth from $100 to $400 an acre, and who buys trees of the "cheapest" seller regardless of quality. At best, the horse buyer's troubles would be over in a few months, for he is not tying up a three or four hundred dollar investment for the rest of his life with every ten dollar spavined horse. The orchardist who owns valuable land should be as critical of what grade of fruit trees he gets as he was in purchasing his land; if anything, more so; for a good tree can be made to bring excellent returns on common land, while a "scrubby tree" is always a scrub, even in the finest soil. Our trees are grown on the Yakima Indian reservation under unsurpassed conditions of soil, climate and moisture. Growing and selling trees is our business. We think we know how, and our customers are positive of it, for the proof is in the hands of thousands of them. We are not troubled with pest or disease, for we have no old orchards within miles of our plant. If our salesmen fail to find you drop us a line. We have them almost everywhere, but want more. IF YOU'RE OPEN TO ENGAGEMENT, WRITE US.

Washington Nursery Company TOPPENISH WASHINGTON

A. W. McDONALD, President
C. J. ATWOOD, Secretary
F. A. WIGGINS, Treasurer and Sales Manager

B. A. MITCHELL, Vice President
Manager Eastern Office
Detroit, Michigan

Record of Mrs. Vrooman's Franquette Walnut Grove Since it Began Bearing

OREGON NURSERY COMPANY,
Salem, Oregon.

Gentlemen: You ask me to give you a report of the increase of my Franquette Walnut trees since they began to bear. Happily I have the figures at hand:

When 3 years old, 1901	82 pounds
When 4 years old, 1902	520 pounds
When 5 years old, 1903	3,700 pounds
When 6 years old, 1904	6,000 pounds
When 7 years old, 1905	12,325 pounds
When 8 years old, 1906	24,314 pounds

The output has practically doubled every year since the trees came into bearing.

MRS. E. M. VROOMAN.

Walnutmere, Santa Rosa, California, November 22, 1906.

This 55-acre grove is planted with 1000 First Generation Franquette trees, grafted in a direct line from the original Franquette tree in France, and is the only large, grafted bearing walnut grove in the world from which seed stock and scions for grafting purposes can be secured.

We have contracted for the entire output of both nuts and scions for three years, which gives us absolute control of the product of this, the world's greatest grafted walnut grove.

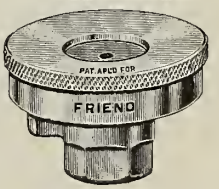
Last year, 1906, eight years from planting, we paid Mrs. Vrooman $6,140.55 for the crop of nuts; over $100.00 per acre.

Write for FREE BOOKLET giving full information of the LARGEST stock of FIRST GENERATION GRAFTED and SECOND GENERATION Walnut trees in the world.

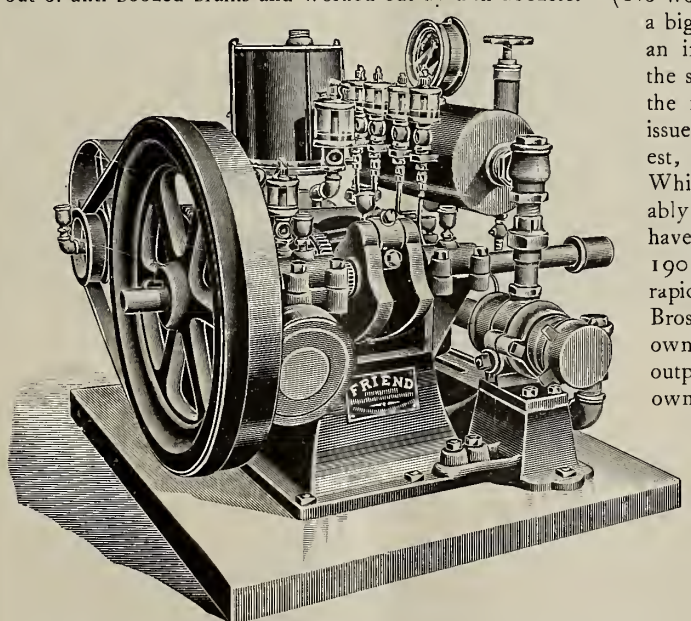
OREGON NURSERY COMPANY

Sole Propagators
SALEM, OREGON

A REAL "FRIEND"



The spraying outfits made by us are real true "Friends", because they are made by real "Friends." Our most effective advertising is done in the good old Quaker way, i. e., satisfied customers. Our ideas are hatched out of anti-boozed brains and worked out by anti-boozers. (No wonder they are imitated.) We do not buy a big, heavy, awkward stationary engine made west and tinker it to an irrigating pump made east and then have the nerve to picture it as the smallest, lightest, simplest and most satisfactory power sprayer on the market. The cut pictured here and the scene elsewhere in this issue gives you some idea of what we believe to be the smallest, lightest, most compact, most satisfactory power sprayer in the world. While it may in the picture appear complicated, yet it is not objectionably so when you consider that our history is, so far in 1907 we have sold 101, 1906-61, 1905-22, 1904-14, 1903-6, 1902-3, 1901-1, and every line of our business has increased even at a more rapid rate. Mind you all this the work of the boys known as Hull Bros., who started in business without a red cent and have held their own ever since; all they have had to back them is the quality of their output. It may seem to you that we are pretty loudly tooting our own horn, but "Friends" we defy the world to produce anything equal to our machines. Our ideas are all protected, if you see them in use by others you may know they have been stolen.



Since our nozzle ad. in the April "Better Fruit" we have had a large sale on them in your state and we believe that when the people of Oregon once get awake to the fact that there is something better in spraying machines than a big, heavy, expensive, small capacity gas bag or a tinkered up mess of weaving, springing wheels, gears and pitmans that take the whole wagon and leave only room for a small amount of spray mixture, they will get together and do as others have done and are doing—Get in touch with the "Friend." No matter what outfit you use, you cannot afford to bother away your time with cheap, awkward, leaky, annoying shut-offs and catching, dripping, clogging, clustered nozzles when you can get the thing you really need and want, and get it quick. The "Friend" Ball Shut-off, $2.20 and the "Friend" Nozzles $1.55 postpaid.

WARNING—We, the "Friend" Manufacturing Company, hereby WARN all persons that we will vigorously prosecute any and all infringements on our "Friend" Nozzle and Shut off. All necessary legal steps have been taken to give us proper protection, and we are fully prepared to defend our rights.

"FRIEND" MANUFACTURING CO.

GASPORT
NEW YORK

ROGUE RIVER VALLEY, OREGON

The Best Pear and Apple Country in the United States

SOIL—Rich, deep and mellow possessing all the characteristics necessary for the highest state of perfection in the production of the finest varieties of Pears and Newtown and Spitzenberg Apples. CLIMATE IDEAL, NO WIND—No excessive heat or cold—almost no frost; no excessive rain—average rainfall 21 inches. Winters pleasant, sunny and mild. ORCHARD LAND—May be purchased from Fifty to Two Hundred Dollars per acre. Young orchards from $150 upwards and producing orchards from $250 to $600 per acre. IRRIGATION—Our valley thoroughly sub-irrigated yet perfect facilities for irrigation when desired.



YOUNG ROGUE RIVER PEAR ORCHARD

ROGUE RIVER PEARS—The fresh fruit car record of the world is held by J. W. Perkins of Medford, who obtained at auction in New York City in the summer of 1905 $3429.00 for a carload of his Comice pears, and he alone could break that record in 1906, when his best carload sold for $3450.00 in the same market.

SOME RECENT YIELDS—C. R. Heimroth sold from one and three-fourths acres of Spitzenbergs, 587 boxes for $1174; from three acres Newtown Pippins, 780 boxes for $1365; total, $2539. This in addition to sales of culls. All in 1906. M. L. Pellett sold from eight acres of Bartlett pears in 1906, 3000 boxes for $4500, net on cars at shipping station, aside from sales of culls. W. H. Norcross sold from two acres of Newtown Pippins, not yet in full bearing, 1906, 657 boxes for $1346.85. The same year, from four acres of Spitzenbergs, $2113.10. This orchard has borne eight good crops in nine years, and the carload of Newtowns sent to London from this orchard in 1906 was pronounced by the dealers to be the best car of the year in that market. Twenty-two acres of pears on the Burrell Investment Company's orchard in 1906 produced 6441 boxes of fruit, which sold for $8884, f. o. b. cars. F. H. Hopkins received in 1906, from fifteen and one-half acres of Winter Nelis pears, $9000, f. o. b. Medford. The Bradshaw & Stevens orchard contains three and one-half acres, 250 trees, Yellow Newtown apples, which annually bring returns of $2500 to $3000.

For further information and particulars apply to

Secretary of Medford Commercial Club, Medford, Oregon

F. K. SPALDING, President T. C. WILLIAMS, DR. J. R. HARVEY, HARRY SPALDING, Directors W. S. McCLAIN, Secretary

The Sunnyside Nursery Company

Incorporated Capital Stock $26,000

Large and Complete Line of Nursery Stock
All Kinds of Shrubs and Bulbs



WHOLE-ROOT GRAFTS FIVE MONTHS FROM PLANTING—AVERAGE FIVE FEET.

Our nursery is located at Sunnyside, Washington, in the heart of the Yakima Valley which is becoming noted for its fine fruit practically the world over. We are growers of all the leading varieties of fruit trees, berries, shrubs, shade and ornamental trees. Also headquarters for rose bushes. With the great demand for our pedigree trees, we have had to increase our capital stock from $10,000 to $26,000 and increase our plant from 250,000 to 1,000,000 trees. Our intentions are to build up our nursery by honest dealing — grow good stock at reasonable prices — and be second to no nursery on the Pacific Coast. We bud and graft from fruit-producing trees, from orchards of our leading fruit growers, as we know there is as much in growing individual trees as in livestock. With constant cutting of scions from nursery stock, the varieties will deteriorate. You have seen the effects in your own communities — orchards of the same variety and yet the fruit from one much better in shape, color and size. We are the most extensive growers of Spitzenberg trees in the West. All of our 50,000 Spitzenberg grafts are from E. L. Stewart's famous orchard, a description of which has been published in many of the papers and magazines of the West. Mr. Stewart is president of the State Fruit Growers Association. We have 25,000 Spitzenberg buds a part of which is from Mr. Stewart's orchard and a part from R. D. Young's orchard whose Spitzenbergs were the finest exhibited at the St. Louis Exposition. We invite correspondence. If you contemplate setting fruit or ornamental trees let us hear from you. We are after your patronage — must have it, will have it, if good, clean, up to date stock and honest dealing will win. Our motto—Nothing so good as the best.

The Sunnyside Nursery Company

IMPORTANT ANNOUNCEMENT

Niagara Lime and Sulphur Solution

To be Manufactured at Hood River

A local company has been organized for the purpose of erecting and operating a plant for the manufacture of lime and sulphur solution at Hood River. Arrangements have been made whereby the well known Niagara brand will be produced, and will be offered to the fruit growers of Hood River, White Salmon, Mosier, The Dalles and all points on the river and O. R. & N. Railroad, *at prices much lower than any like spray has been offered heretofore.*

The purpose of this company, insofar as possible, is to deal direct with the fruit grower and thus to save to him that which would otherwise go to the railroad and the middleman. The Niagara Lime and Sulphur Solution has the record of being the strongest and best spray in the market. It shows the highest analysis, and has proved in actual work at Hood River, in Southern Oregon, throughout the Willamette Valley, Wenatchee, Washington, and in the Pajaro and Santa Clara valleys in California, to be a superior spray and second to none. For further information write or call on

Hood River Spray Mfg. Co.

OFFICE WITH STRANAHAN & CLARK, HOOD RIVER, OREGON

The "Old Reliable"

Albany Nurseries

Incorporated

A full line of General Nursery Stock, including many new and choice varieties



"The Best is the Cheapest"

If you want one or one thousand trees ours is the place to send for them.

Live salesmen wanted everywhere. Catalogue free on application.

ALBANY NURSERIES, Albany, Oregon

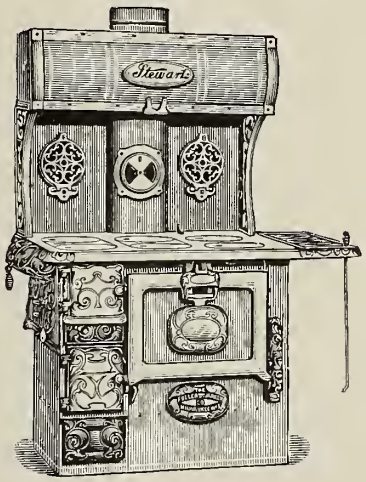
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HENRY JENNING & SONS

Home of Good Furniture

We are agents for the Famous 'Stewart" Ranges, which are made in different grades, but one quality, and are guaranteed absolutely against defect in material, workmanship and operation

When in need of house furnishings, call on us. We carry everything to furnish your home complete at the very lowest prices; also have the most complete line of office furniture in the Northwest



Stewart Magnet, 14-inch Oven	$30.00
Stewart Magnet, 16-inch Oven	33.00
Stewart Magnet, 18-inch Oven	38.00
Stewart Magnet, 20-inch Oven	41.00

$10.00 extra for Reservoir.

HENRY JENNING & SONS

Second and Morrison Portland, Oregon

A FATAL MISTAKE

is made by those who cling to old methods in marketing the products of their fields and orchards. Conditions are changing, new business methods are being adopted. *A revolution is at hand* and we wish to call the

SHIPPERS' ATTENTION!!

to the part we are taking in bringing about a better system and in building up a National Trade and Credit organization for their assistance and protection. We furnish this through two channels.

Badge of 
 Honor

INFORMATION—Credit and Trade information is of first importance to a *successful* shipping business. The Credit Book contains 50,000 names. It shows: First—Who receives *what you* ship. Second—Their specialties. Third—Their financial responsibility. Fourth—*How they have treated other shippers. That's your best credit guide.* Weekly Credit Sheets keep you thoroughly posted on current changes.

PROTECTION—The Adjusting Department with its 1000 adjusters located in every important market is qualified to advise you on condition of goods and merits of customers' complaints and further to adjust through a Chief Adjuster located at Chicago, as well as if made by yourself. Unscrupulous consignees fear our exposures. Bonded Brokers are also furnished. If you have occasion to release them this is a positive financial protection.

PRODUCE REPORTER CO., 34 S. Clark St., Chicago

CALIFORNIA IRRIGATED LANDS

¶ If you are tired of long, cold winters, and want to live where vegetables grow all the year round, write for our booklet.

¶ Old Spanish Land Grant of 40,000 acres now being sold in small tracts at low prices on easy payments.

¶ Deep sedimentary soil — rail, river and electric transportation.

¶ Earliest fruit belt in the United States — unexcelled markets.

LOS MOLINOS LAND CO.

LOS MOLINOS, TEHAMA CO., CAL.

THE LAND OF THE BIG RED APPLE

YAKIMA LAND CO.

NORTH YAKIMA, WASH.

10-20-30-40 Acre Fruit Ranches

Under irrigation at prices and terms that will please you. Write for price list

Timothy, Alfalfa and Stock Ranches For Sale

We have a few 80-acre deeded tracts of Inherited Indian Lands also

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WASHINGTON

PORTLAND SEED CO.

PORTLAND, OREGON
SPOKANE, WASH.



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GROWERS AND IMPORTERS

Seeds, Trees, Roses, Bulbs
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MANUFACTURERS—AGENTS

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Our Illustrated and Descriptive CATALOG TELLS ALL

Write us for information and prices.

A letter of inquiry may save you dollars.

PORTLAND SEED CO.
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